

## AUT wants evidence made public

by Ngaio Craquer  
The Association of University Teachers has proposed that all written evidence to the Swinerton-Hymer committee on London University be made public.

It also wants to know on what financial basis the committee of inquiry can be substantiated. The committee has told all schools it wants to make "large financial savings" and has issued detailed questionnaires which asks which subjects they would be willing to shed, which areas will be difficult to attract good quality students, and whether departments could be merged with other schools.

Some schools have been critical of the way the questionnaire has been formulated and will merely respond in a general way to the theme of the questions.

Professor Ralf Dahrendorf, director of the London School of Economics, said this week that his response to the committee would be "in part our own house in a mirror. I will tell them that I will send them a letter telling them what is in our press release." This indicates the new courses and financial cut-backs unmarked on by the school in solving the problems raised by the cuts and the overseas students policy.

Sir Richard Way, principal of Kings College, said he interpreted the questionnaire as background and intended to give a general reply, with comments on unusual departments.

"There are some questions like, which subjects are vital to your academic well-being and distinction? which are impossible to answer," he said.

At the Institute of Education a working party has been set up to respond to the general line of questioning using the questionnaire as a guide.

The questionnaire asks whether on present financial trends schools can afford to teach all the subjects they now teach. Are there any which, though desirable on academic grounds, should be curtailed because of their high proportion to cost?

Could the number of departments be reduced by inter-school amalgamation? Is any research being duplicated in another school? Would there be academic merit, or savings in unification?

If subjects are heavily over-subscribed, is the quality of applications inferior? The schools have also been asked to say whether any of the university's central services could if necessary be wound up.

## Lecturers' pay: both sides 'confident'

by Peter David

Employers and union leaders met in London yesterday in new talks to resolve the polytechnic and college lecturers' pay dispute. Last week's meeting of the Burnham further education committee broke up after the employers' side refused to make an offer for 1980-81 because of the impasse reached in negotiations with schoolteachers.

Before yesterday's meeting both sides said they were confident that progress could be made. Both sides agreed to meet again on the implementation of the Clegg recommendations and on the 1980-81 pay claim. Following a 13 per cent offer to schoolteachers at the end of last week, the way was now clear for an offer to be made to lecturers.

The negotiators were also optimistic about the Clegg recommendations. They hoped it would be possible to reach a provisional agreement on the Clegg pay scales and a small increase in the proportion of lecturer's pay.

The fate of part-time lecturers was likely to prove a more contentious problem. The union side wants part-timers who do a substantial amount of work to be given secure pro rata salaries, while the employers' union wants to press for improvements in

## Huddersfield offers an olive branch to new Labour council

by Paul Flather  
The governors of Huddersfield Polytechnic have invited Kirklees Council to make a joint approach to the Department of Education and Science to appoint a person of high standing to arbitrate and mediate in the dispute between the college and the local authority.

The invitation comes just a week before Kirklees councillors meet to appoint a completely new set of representatives to sit on the polytechnic board of governors.

The council is now controlled by Labour following last week's municipal election results. Labour has always remained the keenest of the three major parties to press home changes in the way the financial affairs of the polytechnic are run.

Returning were demanded by the council after the publication last January of an audit report which accused senior polytechnic staff of misadministration and a lack of accountability. The findings of the report have been challenged by the

governors. Councilor John Merugh, who is set to become the new chairman of the council education committee, said the local authority was anxious to resolve the matter diplomatically rather than nationally. We very much regret that this has dragged on so long. We hope the new governing body which is appointed will set a better example and sweep clean the problem. He said the local authority was still waiting for answers to 40 detailed questions put to the polytechnic director on the affairs of the college.

Both sides have now appealed separately for DES intervention, but it is unlikely that the new council will now want to back a joint appeal suggested by the present governors.

Although DES officials have been closely watching developments in Huddersfield it is not clear how the department could intervene if it wanted to. There is no precedent for such a step and no clear legal procedure for it to over-ride articles of government which give control to the governing body.

Meanwhile informal meetings between council officers and polytechnic officers aimed at producing a jointly agreed report, have now been adjourned until the new governing body is selected.

The present chairman of the governors, Mrs Jane Carter, who has always strongly backed the polytechnic is one member who might be replaced on the new body. Last week she had a brief meeting with Dr Rhodes Boyson, Under-Secretary of State for Higher Education.

In a statement this week she said that only someone appointed by the DES would be able to act independently to resolve the dispute. Any report produced on the experience of Huddersfield and the "politics" caused by a convoluted system of financing and controlling polytechnics "would have national significance," she said.

## Firms report trade boost from overseas students

New evidence is emerging from British companies abroad showing the benefit to the nation's trade from taking in overseas students.

A number of large firms are contributing to a study being carried out by Professor Mark Blaug at the University of London's Institute of Education. Initial replies from foreign subsidiaries in a wide range of countries supports the argument, often dismissed by sceptics, that overseas students bring trade benefits later in their careers.

Most striking are the results obtained by Imperial Chemical Industries from six of its subsidiaries in Asia and Africa. Senior managers in all six wrote to Dr Kenneth Everard, ICI's education and training manager, testifying to the favourable attitudes of counterparts educated in Britain.

The countries concerned—Indonesia, Japan, Malaysia, Singapore, Pakistan and Nigeria—include two of the largest providers of overseas students. Nigeria, with more than 6,000 students in Britain in 1977, is one of the examples regularly cited by Dr Rhodes Boyson, under-secretary of state for higher education, of a country whose attitude to Britain does not reflect the contribution made to the education of its people.

But ICI's chief executive there, a businessman with 36 years' experi-

ence of overseas trade, wrote that "other things being equal, and sometimes when they are not, former students tend to favour Britain". His counterpart in Japan noted a similar attitude there since these educated in Britain consider they have a debt to repay. Dr Everard said it was difficult to quantify the benefits but the managers all agreed that there were real trade advantages flowing from former students. "I think it is virtually impossible to show an unambiguous cause and effect relationship because the decision-making process is usually so complex," he said.

"We are reduced to an informed assessment of the situation. It shows, as we suspected, that the Government is taking a long time to crack a nut in raising the fees as they have."

Mr Michael Bury, director of education, training and technology at the Confederation of British Industry, said there was no doubt that there was a close link between trade and industrial training of overseas students. It was more difficult to

Professor Blaug's study is expected to take several months and is now at an early stage. It is one of a number of projects commissioned by the Overseas Students' Trust with the aim of providing reliable information on which to base future policy decisions.

Further education sector 18.2 per cent across the board. The college and central institution unions want increases ranging from around 18 to 20 per cent for different scales.

Mr Jack Hale, secretary of the Association of Lecturers in Scottish central institutions, said "It is offensive of the management to seek to impose on us the distribution agreed by a body in which we had no representation. Since we are a sovereign body there is no reason why we should conform to anyone else's calculations." Unusually, the negotiating committee for the colleges of education met on the same day, since the Scottish Education Department is represented on both management sides and the same people would normally attend both meetings.

The unions feel this was a surreptitious attempt to bring both bodies into line with the SBC. Since the Houghton Report there have been suggestions that there might be one umbrella negotiating body, but the colleges and the central institutions have always called for a full investigation of the implications first.

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## 'Excess payment' plan urged



Dr Rickett "imaginative short-term solutions".

The Government is being urged to consider special excess payments as one way of encouraging trainee teachers to opt for subjects of particular shortage such as physics, chemistry or craft and design.

Dr Raymond Rickett, the director of Middlesex Polytechnic and chairman of the Committee of Directors of Polytechnics, said this week that really imaginative solutions were needed to combat the serious shortage of teachers in some subject areas.

He said he was disappointed that the Clegg Commission had not formally recommended differential rates of grants and pay for trainee teachers opting for certain crucial science subjects. Market-place laws were needed in the short-term.

Students training for teacher education had fallen dramatically this year by about 30 per cent from 9,000 to about 6,000. But while 20 per cent were training in physical education or movement studies, just 22 were learning to teach physics and chemistry.

Dr Rickett said: "What those figures show is that in three or four years' time we will have just 22 teachers apart from postgraduate trainees to meet all the requirements."

"It is all very well looking for solutions along the Plimston model in the long-term, but we need really imaginative short-term solutions such as excess payments or differential grants."

He urged senior administrators to give the problem top priority. In-service training for higher national certificate scholars was another step suggested by Dr Rickett. "This is the most serious problem in the mind of education at the moment. You just cannot keep on the pressing on the pump and while the ducks run dry of what they really need," he said.

## Technical training 'neglected'

by Charlotte Barry

Misuse of resources has led to neglect of technical education and co-ordinated programme of training should be set up immediately, according to Mr Jack Foller, principal of Waltham Forest College, Essex.

Writing in the spring bulletin of the National Council for Educational Standards Approaches to the 80s, Mr Foller attacks the universities.

"The autonomy of universities has enabled them to develop in direction, that reflects the needs of their most forceful leadership, with little (if any) thought in the employment prospects of their students," he writes.

"Fine, a degree for its own sake, but in a near banking crisis, when the need for technical skills, when education be allowed to mount courses without thought to employment and society's needs?"

Mr Foller also criticises universities and local education authorities of being shy of creating redundancies and rationalising courses. Resources can be allocated towards technical training.

"Some teaching staff in universities and polytechnics do little or no teaching at all and have time to take in a second job, or consultancy or disappear abroad for six months could be saved if everyone had to do a full day's work," he claims.

Mr Foller recommends the setting up of a co-ordinated programme of training, integrated with the resources of I.E.S.s, the Manpower Services Commission and the funding Training Board, with investment in modern techniques. "More training, more recognition of training's needs and more respect for the artisan is essential," he says.

## Polys

from page one

problems with the Department of Education and Science, which he accused of being ostrich-like in its attitude to the new sector of higher education. "It is extremely difficult to get senior officials of the DES to listen to what we have to say," he said.

Nothing had been done by the DES since the colleges' designation in the 1972 White Paper. This was in the 1972 White Paper. This was in the 1972 White Paper. This was in the 1972 White Paper.

There has been a systematic attack on the 1968 Education No 2 Bill. The idea of autonomous governing bodies has been rejected by the DES. The idea of autonomous governing bodies has been rejected by the DES.

The present system incorporates abundant waste. It was about that he could not replace a secretary or technician without a letter from the college and the town hall.

Although the university stresses the importance of a strategy for the 1980s, it is conservative. It carries the weight of a vice-chancellor, Professor Philip Reynolds, and his senior colleagues. The proposals will be discussed in departments before going to Senate, then to the governing body and finally to an annual meeting of Senate on June 1.

Professor Reynolds set up the committee as a sub-committee of the Senate after taking up the job. He said the colleges undertook a "selective review of every aspect of their work" and the need for "fundamental change" was clear. The committee does not say how

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## Councils demand power in polys

by Peter David

Local education authorities are to ask the Government for sweeping new powers to intervene in the management of polytechnics and colleges. They are compiling evidence of mismanagement by institutions to include a submission to Mr Carlisle, Secretary of State for Education and Science.

Their demands set out in a document approved last week by the Council of Local Education Authorities, include taking over financial responsibility for setting college constitutions, which at present have to be approved by the Department of Education and Science.

The document says that a number of local education authorities have experienced polytechnic governing bodies which have condoned overspending or sanctioned excessive "luxury spending" on behalf of principals and directors.

One reason is that the instruments of government approved by the DES over the past 12 years have been too prescriptive and have ceded too much independence to the institutions.

"CLEA believes that the strict letter of the articles of government of many colleges seriously impedes the effective management of higher education institutions," and because authorities at times feel the need to act in breach of those terms, they act on points of conflict with teachers and others with whom members and officers of local education authorities need and wish to act in harmony," the document says.

The document says that local authorities do not want to take over the detailed daily running of institutions. But it lists four areas where local authorities, as the responsible

electorates, should have substantial "reserve powers" to intervene in polytechnic and college affairs. They include:

- Power to change college budgets in the middle of year and not just during the annual budget approval;
- Power to intervene directly in the approval of courses to supplement an existing right to determine the "general educational character" of institutions;
- Power to act as the undisputed legal employer of all polytechnic staff, with responsibility for redundancy, redeployment, discipline and health and safety;
- Power to intervene in detailed financial administration in cases of "dubious financial management".

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## Clegg chaos overshadows lecturers' pay

Pay negotiations for university and polytechnic lecturers are in confusion as a result of the misfortunes befalling the Clegg commission on pay comparability.

The Association of University Teachers is increasingly likely to withdraw from Clegg but its 1980 pay claim and the balance of the 1979 settlement, which is payable in October, the outstanding issues would then be settled in traditional negotiations.

At its council in Liverpool last weekend the AUT authorised its negotiators to withdraw from Clegg if necessary, and pursue a payments in October of at least the same figure (17 to 22 per cent) as that awarded by Clegg to the non-university sector.

A major reason for the AUT's disenchantment with Clegg is a recent announcement that it would take up to 18 months to produce a thorough report on university lecturers' pay. The union is also perturbed by the chapter of errors and counter-errors arising from the commission's report on pay for public sector lecturers and school teachers.

Leaders of the National Association of Teachers in Further and Higher Education are convinced that the original Clegg mistake, which resulted in recommending a 4 per cent too much for teachers is cancelled out by another one, detected by the Independent Education Union, Income Data Services.

In a letter to Mrs Thatcher, Professor Clegg said the first error had arisen because he had failed to take into account salary increments received by graduates entering teaching but not those entering industry. NATFHE believes this is balanced by the commission's failure to notice that graduate teachers "lost" a year's pay through their extended education and training.

Professor Clegg has denied that there is a second error, but talks on pay have reached stalemate. The management panel of the Burnham committee was to meet yesterday to decide whether to stand by their offer or attempt to reclaim any of the increase previously recommended. The 1979 salary scales have already been ratified.

Mr Peter Dawson, NATFHE general secretary, said: "We know the management side has said that in the 1980 negotiations it will be taking into account any Clegg error. We do not think there is any such problem and think we will be able to demonstrate there is not."

Staff belonging to the Association of Lecturers and Colleges of Education in 10 colleges of education in Scotland are to take industrial action from June 5 unless they receive a better pay offer. The association has rejected an offer of 15 per cent and is seeking at least 20.6 per cent.

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### The THES

The Times Higher Education Supplement was not published last week because of the refusal of some members of the National Graphical Association to accept changes in production schedules and advertising. As a result the classified advertising appears in two sections. The first, which would have been published last week, starts on page 23, and the second, on page 24.



# Councillors back streamlined body

by John O'Leary

Radical proposals for the formation of a single body to represent polytechnic and college heads have won the support of local authority leaders.

The Council of Local Education Authorities is to seek talks with a range of organisations in an effort to simplify the process of consultation and representation. The mechanics of the operation will be left to CLEA's new advisory body on higher education.

Possible participants in the talks would include not only the polytechnic directors and the two college principals' organisations, but also the Standing Conference of Regional Advisory Councils and the Association of Colleges in Further and Higher Education.

The new organization would have no trade union function and would be funded by the local authorities, possibly through college budgets, it would represent the interests of all directors and principals concerned with Advanced Further Education.

A recommendation to open discussions on the formation of a joint body was put to CLEA in paper by Mr Gordon Cunningham, Education Officer of the Association of County Councils.

It came as a result of renewed requests from the Standing Conference of Directors and Principals of Colleges and the Association of Colleges in Further and Higher Education for recognition and financial support comparable to that accorded to the Committee of Directors of Polytechnics. A previous request was turned down three years ago.

With funding for the CDP secretariat approved for another year at last week's meeting, the principals' bid for financial support stood little chance of success. The secretariat will cost more than £40,000 this year and Mr Cunningham's paper pointed out that the CDP was "unique in being an employee body (albeit at non-management level) which draws financial support indirectly from LEA budgets".

However, the establishment of a new joint body would be welcome consolation for the Standing Conference, which has argued for such a change for some time. The idea has been resisted by the CDP which has preferred only to hold occasional talks on specific issues. Mr Cunningham's paper recognized that the directors would wish to preserve their identity either outside or within any new group.

The joint body would also subsume some of the functions of the Association of Principals of Colleges, which would maintain its trade union role manifested in its representation on the Burnham Further Education Committee. CLEA was also recommended to consider a structure which allowed for the continuation of financial support for the CDP.

Further talks on the issue of representation have taken place last week between officers of the Standing Conference and senior civil servants at the Department of Education and Science. Mr Neil Mercer, chairman of the Standing Conference, said he had been encouraged by progress made at the meeting and that contact would continue next month.

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Middlesex Polytechnic's tennis team took a look at Forest Hills during a recent tour of America when they won three out of five matches against university opposition. The Middlesex players are making a name for themselves in the tennis world—they have won the British polytechnic singles championships for the last two years and have been European universities champions.

## GMC issues statutory new rules

New recommendations for organizing university medical education were issued last week by the education committee of the General Medical Council—and for the first time these proposals will have statutory force.

Under the Medical Act, 1978, the committee has set up and given special powers to ensure basic standards of medical education in Britain. These highlight the extent of knowledge and skill, the standard of proficiency, and the pattern of experience that are needed for medical qualifications to be recognized.

Previous—but less stringent—guidelines have been issued by the GMC in the past and several new trends are noticeable since the last were published in 1967. In particular, the recommendations on Basic Medical Education stress greater importance of teaching and instructing in general practice.

There is also more emphasis on integration of clinical and pre-clinical studies and of teaching different disciplines. "The council wishes to encourage integrated and interdisciplinary teaching throughout the undergraduate curriculum," the committee report states. "In particular, it welcomes moves to introduce clinical instruction early in medical courses."

The committee also warns that students' factual load in learning and memorising basic sciences should not interfere with the need for a critical study of principles. Students should also learn to work independently and should be given time for private study and self-education.

"It is also recommended that he be given increasing supervised clinical responsibility during the last two years of training," the report adds. "The report also suggests that medical students could participate in research projects under supervision, prepare essays or dissertations or work on study which could lead to Honours BSc or BMed Sci degrees."

Medicine and surgery should also be introduced less as separate disciplines than as different facets of "medicine in the wider sense," the report adds. "The council regards clinical clerkships as the indispensable method of clinical teaching," the committee states.

retortism. In a statement from the union, which has 8,800 members, he said: "The students of this college are completely opposed to any terrorist activity which seeks to undermine the democratic structure of this country."

"We realize that within the NUS many people are similarly opposed to violence in Northern Ireland. However, we do not wish to be registered as disaffected or disaffiliated." The policy was misguidedly and misinformed, he said.

Other student unions, including Queen's University, Belfast, and Robert Stanley College, Belfast, are also expected to discuss the new

## MSC considers proposals to restructure schemes

by Patricia Santinelli

Proposals to restructure completely special programmes for the unemployed are to be discussed by Ministers and the Manpower Services Commission.

The proposals, which are for the creation of two new programmes similar to the Youth Opportunities Programme in structure, one covering the 16 to 24 age group and the second of a more temporary nature specifically for adults between 45 to 50 and over, are said to have arisen directly from concern over the massive rise in unemployment in both age groups.

Ministers are believed to be extremely worried at the sharp rise in unemployment of adults over 15, which represents the bulk of the working age group. Currently this age group is the largest in the Special Temporary Employment Programme. Moreover, they are disturbed by the rise in long-term unemployment of the 45 to 50 age group and beyond.

Their thinking is that both groups would profit from offerings of the

## Pressure group calls for plan to expand apprenticeships

As expansion of apprenticeship schemes for young people is called for in a report by the Actien Society, Trade's week.

The move would help ease youth unemployment and the transition from school to work says the report in Youth Unemployment and the Bridge from School to Work, funded by the Anglo-German Society and edited by Mr. J. Gimson, MP. The study concentrated on the level of youth unemployment in Western Europe and its relation to the education system.

It points out that high apprenticeship countries such as Germany have been suffering much less from the high level of unemployment. "Therefore steps must be devised to enable Britain to make a 'sea change' for its present place among low apprenticeship countries to a new place among high ones."

With the emphasis that these apprenticeships must be restricted to traditional largely male ones such as bricklaying but must include the same vast range as, for example, the 400 in Germany, it says: "The report proposes a system of youth training allowances on the lines of these currently paid to young people on the Youth Opportunities Programme which be extended to cover the entire age group across

## History chair problem solved

Oxford University has solved the problem of filling the vacant chair of Regius professor of modern history by appointing another Oxford history professor who already receives the £14,000 a year salary attached to the chair.

Professor Michael Heward, currently the Chichele professor of the history of war at the university, has been appointed to the vacant post. He was appointed last month. The university will now have the difficulty of finding a new professor. Hugh Trevor-Roper, who retired on September 30, was the last holder of the chair. The university has a moratorium on all new appointments and there had been doubts about whether it

type made under YOP, which has provided a mixture of education and training to unemployed youngsters between 16 and 19.

No decision is expected until autumn, when a review of special programmes currently being undertaken by the Commission has been completed. This will coincide with the period when the budget of the Commission and Special Programmes Division for 1981 is discussed. The new programme could be introduced in April 1981, at the next stage in development, as effectively fulfill the wish of Ministers to put a Tory stamp on special programmes.

It is also understood that if new programmes come into being they will have a high concentration of offerings on the lines of Work Experience and Employers' Training. This is because both Ministers and the Commission believe that school leavers now becoming unemployed are not the less able to do these reasonably able to hold a job.

"We would prefer an arrangement under which the allowance payable to all those in the 16 to 19 age group including those who have chosen to remain at school would be the same as those who have left school and would be paid for the cost of introducing such a scheme with 450,000 young people staying on at school and 150,000 a week would be added to the allowance paid only to those aged 16 and 18, who had left school already and might even represent a saving."

The report adds that a third alternative solution to easing the transition from school to work, particularly for those at the lower academic range, would be to change to present school attendance requirements.

Introduction of the Certificate of Extended Education for non-academic single year work should be frozen and certification structure undertaken on a comprehensive basis for the 16 to 19 age group, says the Association of Colleges in Further and Higher Education, in a report to the Robbins and Mansell report on post-employment courses at 16.

could have overturned its own policy, even for such a prestigious appointment as the chair in modern history. Cambridge, however, has a long tradition of appointing a professor of modern history to the vacant chair. The chair is currently held by Professor Michael Heward, who already receives the £14,000 a year salary attached to the chair.

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# Students boycott meeting in Prague

by Paul Flatley

The National Union of Students is boycotting an international conference of European students unions to be held in Prague in June, but at the same time the NUS has offered to host next year's conference in London.

The reason is the NUS's refusal to recognize the official Czechoslovak students' union, the CSVU, which was set up after the purges that followed the collapse of the Dubcek regime in 1968. It will be the first time for 10 years that the NUS has not attended the conference, which represents more than 20 million students from 20 countries.

Mr Stuart Appleton, head of the NUS international section, said: "We have never recognized the existing students' union. We see it as representing all that went wrong when the Russians invaded after the 1968 Prague Spring."

The NUS representatives attended a briefing session to discuss the agenda for the forthcoming conference in Prague. Working with the Swiss and French students' unions, the NUS is trying to make the conference discussions more open and practical.

"We suggested that the conference should be broken up into smaller working groups to discuss practical matters and not waste time on some state of the world community educational needs of the city."

The report written by Mr Peter Newman, the NUS education officer, defends the authority's record on standards and insists that the break-up of the ILEA would be expensive and inefficient. And it points out that the high cost of running the authority derives mainly from the policies pursued, rather than from the structure itself.

Criticising the findings of the Baker Report, which advocated the abolition of the authority, it contends that the separation of schools from colleges and polytechnics would create more problems at the new boundaries than would be solved.

Reviews of course provision within higher education were still in progress, Mr Newman's report said, while the authority's team of 120 inspectors had enabled the whole field of post-school education to be properly covered. "It is no coincidence that Birmingham and the ILEA, two large urban authorities, have been able to initiate innovative developmental work in micro-computing and microelectronics generally," it added.

A counter submission by the Conservative group on the ILEA supports the Baker Report's general conclusions that the authority is "in essence neither democratically nor financially accountable, that it fails to secure a high standard of education commensurate with its very high level of expenditure compared with other authorities and that fundamental changes are needed to put these matters right."

Under CCETSW's new requirements students will be expected to demonstrate knowledge and understanding in five specific areas of study and also show their ability to carry out a list of required tasks. The council also intends to tighten its requirements on practice teaching. The minimum length of each placement will be not less than 50 working days, and must be under the supervision of a qualified teacher with at least two years' experience.

In addition the council is seeking to involve external examiners more, who must report on intentions to review, routinize or implement new courses. The new requirements will take effect on the intake in QSW courses in 1982/83 and the council is asking for comments on them by October 1 this year.

This amendment of guidelines follows an extended period of consultation which began in 1976. It came in a blaze of controversy in 1978 following the publication of a discussion paper, *Consolidating Document Three* by CCETSW.

qued—and it seems the Czechs have agreed," said Mr Appleton. In the past the conferences have looked at academic exchanges, the recognition of different degrees and diplomas, and European institutions of Higher Education. This year's conference is set to discuss academic and disengagement, the relationship between Europe and the Third World, and a European Charter of Student Rights.

Conferences are held alternately in the Eastern bloc and the West Europe. The last Conference was in Dublin in January 1979; this conference was delayed six months because of the objection of NUS, the largest national union, to CSVU.

The NUS is sending representatives to attend the Canadian national students union conference in Halifax, Nova Scotia, and a preparatory conference on world disarmament in Helsinki.

Students have been urged by the NUS executive this week to help raise funds to support British athletes for the Olympic Games in spite of government opposition.

Mr David Aarons, NUS president-elect, said: "We are responding to an appeal from the British Olympic Federation which has lost other sources of funds. We do not believe the athletes, who include many students, should be penalised."

The assistant principal of a London college has asked Mr Mick Carls, Secretary of State for Education, to intervene in a row over redundancy which resulted in a successful prosecution for theft and is still the subject of union proceedings.

Mr Harold Trace, now the assistant principal of the West London Institute of Higher Education, wants Mr Carls to refer the conduct of the previous institution, the South West London College, to the ministerial study group investigating the Inner London Education Authority.

Allegations surrounding a bustle run partly from the college were the subject of an ILEA inquiry which reported to the authority's education officer in 1978. The principal of the college, Mr Lyndon Jones, was acquitted of theft of ILEA property in a



# Ngaio Crequer and David Jobbins report at the AUI Council in Liverpool

## University teachers press for single salary scale

University teachers agreed last week to press for a single salary scale to replace the present lecturer and senior lecturer grades despite a strong plea from their executive that this would depress maximum salaries.

The council of the Association of University Teachers, held at Liverpool University, voted by 125 to 95 to a thorough overhaul of policy, after a lengthy and emotional debate.

The motion called for two efficiency bars, the present one and a second, the present maximum of the present maximum of the lecturer scale, to be firmly within the span covered by the maxima of civil service principals.

Progress through the bars should be based entirely on merit, the university and the AUI should define what was required to progress.

Dr David Thomas, who seconded the motion said the lecturers were "feudal vassals in the pay of feudal landlords". He said that often progress was not made on merit. At Bristol the university worked out in pursuing excellence then let us not agree to follow a procedure fundamentally undemocratic and feudal.

"We do not want a skiver's charter. It is an act of grace and favour if you are told why promotion has been refused. If we believe in pursuing excellence then let us not agree to follow a procedure fundamentally undemocratic and feudal."

The University Grants Committee September 1977 to the latest to the AUI's

# Russian report slammed

The credibility of the University Grants Committee was at stake over the way it handled the report on Russian Studies, Dr Andrew Taylor, president of the Association of University Teachers, told the council.

He described the report, which called for the closure, transfer or phasing out of Russian in 19 universities, as shoddy and disgraceful. The report, he said, did not set out any criteria by which departments had been selected for closure, and the committee had steadfastly refused to reveal its reasons.

"The UGC will not survive if they do not retain the belief of university staff in the standards of competency, and keep their panel working openly. What is at stake here is not rationalization, but the credibility of the UGC."

He said he was aware of a vague report that unless something was done on Russian, then the Government would step in, but he said there was no evidence from the

# Books spending down by a third in three years, committee told

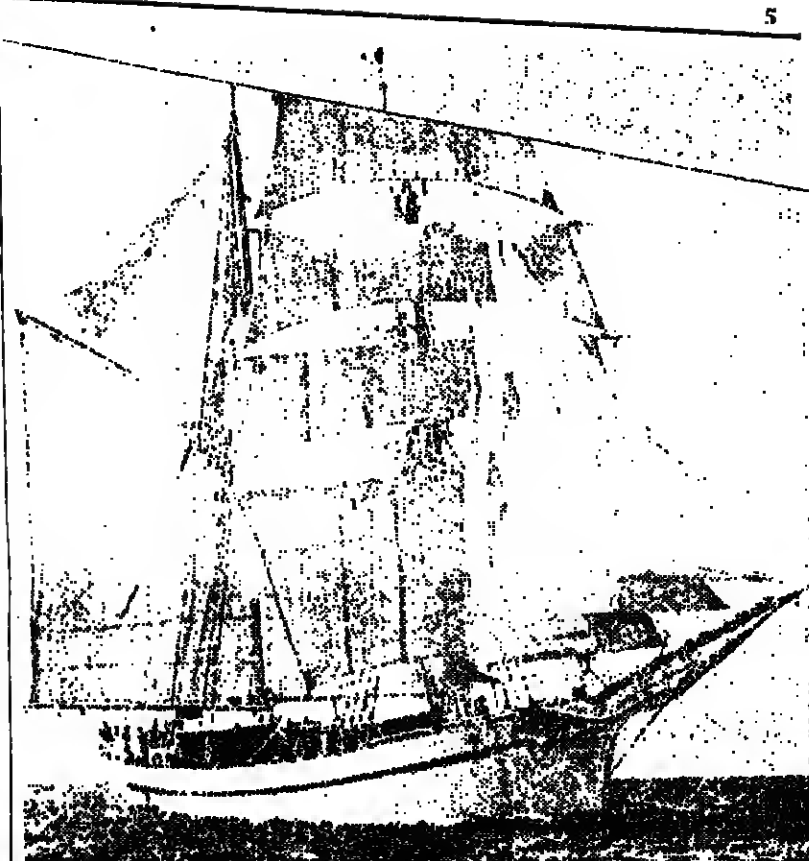
Spending on books in universities has gone down by a third in the past three years, the public accounts committee was told in the House of Commons.

The secretary of the University Grants Committee, Mr Geoffrey Cockerill, told the all-party committee of backbench MPs that although successive governments had done their best to safeguard equipment, books in the universities have suffered to fall on books, laboratory materials and general maintenance.

In reply to a question put by the committee's chairman, Sir Joel Barnett, Mr Cockerill denied that the reduced spending on books implied that the much had been spent previously, the added that the one third cut in book buying had not apparently had any damaging effects.

The permanent secretary of the Department of Education and Science, Sir James Hamilton, told the committee that the universities had suffered a drop in income of 5 per cent since 1977-78 due to changes in Government policy.

It is not easy for universities to deal with this, and this is one reason that we have allowed them to accumulate a certain amount of reserves in cashion them against reductions like these," he said.



Nearly 200 young people from all over the world will crew the brigantine 'Eye of the Wind' (above) in a two-year circumnavigation of the globe to commemorate Drake's voyage 400 years ago. Dr Ian Swingland, a lecturer in animal ecology at the University of Kent, will direct the project's scientific programme when the ship arrives in the Seychelles in June. He hopes to rediscover two extinct species of balsam.

# Demo banner splits the ranks

Confront was voiced about one report of the AUI's public image, inflicting a defeat on the executive in the process.

What caused the furor was neither the general secretary's public statements—nor the cut of union leaders' votes.

It was the AUI's banner given an airing on the March 9 demonstrations by the TUC. "Not visible or legible", "Not serving as a good rallying point", delegates complained. "Why is it yellow?" asked someone from the Glasgow contingent, which sports a black one.

President Dr Andrew Taylor didn't agree. On March 9 it had certainly had an impact on watchers standing on the pavement who were

# Opposition to Flowers medical scheme

The council maintained its opposition to the Flowers report on London medical education and said that the threatened redundancy of academic staff was significant to all university teachers.

Mr John Akker, AUI deputy general secretary, said: "What happens in London is a precedent for what happens elsewhere. Our view is that the case for the Flowers report has not been made on any substantial basis."

He attacked the claim that the report, if implemented, which recommends the reorganization of medical education into six schools, would save up to £3m.

"When we approached the university to substantiate that they said it was a 'guesstimate'. When we asked how much it would cost to reorganize the schools in larger groups, we found no calculations had been done. In respect of just one of the amalgamations we say it would cost up to £14m."

He said the AUI wanted clear assurances regarding the staff. There had been no assurances about redundancy or the possible transfer of staff that might take place, although there did appear to be recent changes of attitude.

Dr Richard Bruckdorfer, of the Royal Free Hospital, said the Flowers report was rushed and incompetent. Other institutions

# Posner criticized for 'abstruse' SSRC research

Sharp criticism of the "abstruse" nature of some of the research funded by the Social Science Research Council was levelled at its chairman Mr Michael Posner when he appeared before the public accounts committee.

Paying £9,469 grant awarded to a British anthropologist to study the changes in the kinship system and the allocation of sex roles in a modern Polish village, the committee chairman, Sir Joel Barnett, asked how this sort of "abstruse" research was relevant to the national needs of the United Kingdom.

The MP for Horsham, Mr Peter Horden, also said he found it difficult to understand how research into subjects such as the social organization of long-distance traders in Lijia (Kenya University), or a study of the history of Boston Massachusetts between 1865 and 1915 (Full University) could have practical application in the national interest.

Mr Horden also objected to the language used in the description of Glasgow University research into the drinking patterns of young males, which he believed was a poor example of a "spoon" subject invented by an undergraduate.

Replying to these criticisms, SSRC chairman Mr Michael Posner said that he considered the council served the national need adequately as half the research it supported

# Incentives could correct subject balance, says APT

by John O'Leary

A new system of incentives should be introduced to influence the subject balance of higher education in line with manpower planning, the Association of Polytechnic Teachers have told the Select Committee on Education.

In a written submission to the committee, the APT calls for more vocational courses, and criticises the Council for National Academic Awards for being too conservative.

"Country to myth," their evidence says, "the attempt to steer a new line through the CNA is extremely hazardous, expensive and, usually, unsuccessful."

Although the pitfalls of manpower planning are accepted, the course is still favoured because the alternative is said to be much more unacceptable. It would be more acceptable and effective if implemented through incentives, rather than directives, but their exact form would require discussion.

One step in this direction could be through a change in the recruitment policies of national and local government, which are able to take graduates of varying disciplines into a broad range of subjects. They are better careers advice to avoid a waste of graduates' skills, an adequate supply of the right subjects, freedom of choice for students and the shortening of inappropriate response time.

To do nothing could have disastrous consequences, the APT warn, drawing parallels with the effects on Spain when, in the 1960s, university mathematics and scientific inquiry were dismissed from the universities.

# Oxford dons await details of Prague 'infringements'

by John O'Leary

The visits were quite clearly private and not subject to the agreement.

The Czech constitution is also quite explicit that all citizens are equal before the law, in particular the freedom of speech and of the press (Chapter 11, article 28, section 1) of the 1960 constitution). Czechoslovakia is also a signatory of the Helsinki Agreement on Human Rights.

However, the section says these freedoms are guaranteed for the "economic and cultural construction of the country". Foreign Office officials feel the Czechs could argue this condition was not being fulfilled because the seminars are unofficial.

It would be difficult for the authorities to argue that Dr Tomlin's meetings threaten the public order of the country, unless a lecture on Aristotle's Ethics is to be termed subversive.

If Dr Tomlin's unofficial seminars are claimed as "educational activity" the authorities could claim he has been breaking Law 186 which says: "All education is controlled and directed by national committees."

So far six Oxford philosophers have visited Prague to lecture at the unofficial seminars. The faculty of philosophy at the university plans to continue the visits, and Dr Kathleen Wilkes, lecturer in philosophy and fellow at St Hilda's College, who has organized the visits, says there is no shortage of people waiting to go.

# Full-time student numbers drop further

by John O'Leary

Numbers joining full-time courses in higher education dropped for the fifth successive year during 1977, largely because of a dramatic fall in teacher training enrolments. But an increase in part-time numbers brought about a marginal overall rise.

Statistics for last year, issued by the Department of Education and Science, show a fall of one per cent in the number of students on full-time and sandwich courses but an increase of six per cent on part-time day courses. With numbers constant for evening only classes, the result was an increase of one per cent overall, bringing the total number of students up from 342,000 to 347,000.

Full-time courses outside teacher education also showed an increase: enrolments of 7,000, but a 5,000 drop in initial teacher training brought the total full-time figure to only 192,000. This compares with 194,000 in 1976 and 208,000 in 1974.

The best news came in engineering and technology, where numbers rose in part-time enrolments. Other subjects showed only marginal fluctuations.

As in previous years, enrolments at polytechnics rose more sharply than elsewhere, although they were still less than in universities. Numbers had risen by more than 50,000 in the four years up to 1977 and only a further 3,000 were added last year.

Of those graduating, sandwich course students fared better than their colleagues in all sectors of higher education in the race for jobs. And, overall, more graduates went into industry and commerce than at any time since statistics have been kept on the present basis.

The number of first degree graduates known to be unemployed by the December following their completion of studies fell for the

# National Council plan is a possibility, says DES official

by Patricia Santinelli

The setting up of a national council to oversee national policy on non-advanced further education is a future possibility, Mr Alan Thompson, deputy secretary at the Department of Education and Science has confirmed.

Speaking at a conference on planning for non-advanced further education organized by the Chartered Institute of Public Finance and Accountancy, Mr Thompson warned that this could only be the second step in the process of devising a national policy.

"Before any such body can exist, work must have been done on the methodology. At the moment we are looking at a framework through which some policy can be devised and we will consult local education authorities. We realize this is urgent and we mean to do it."

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# Lecturers' union blacklists Surrey colleges of art

The college lecturers' union has imposed a total blacklist on appointments to Surrey's three art colleges following a three-day strike over talks over threatened redundancies at West Surrey College of Art and Design.

The executive of the National Association of Teachers in Further and Higher Education has also threatened to extend the blacklist to the county's two technical colleges if the union fails to get any satisfaction from a meeting between the education authority and Natfhe leaders.

Surrey is pressing on with plans to shed 14 full-time equivalent posts at the full-time equivalent of the college's college from May 1981, and even more in 1982.

About two-thirds of potential redundancies will affect full-time staff with the rest being made up of part-time lecturers.

Letters have been sent to 11 named individuals warning they may be made redundant with formal notification likely by the end of the month.

Lecturers at the college have

# Production engineers attack Finniston plan for one body

by Robin McKie

A strong condemnation of the Finniston proposals for re-organizing engineering in Britain has been issued by the Institution of Production Engineers.

Although the Institution, in its response document, does not say it has submitted to the Department of Industry, it says there would be a central engineering body, it opposes the particular plan forward in the report of the committee of inquiry.

Instead, the Institution proposes that three different bodies be set up: one for education, training, and practice; one for research and development; and one for the Council of Engineering Institutions.

However, the association argues that some recommendations should be altered. In particular, registered engineering status should be given only to graduates on four-year courses. Many courses had been taken on a two-year basis and an urgent examination should be carried out to investigate the status and future of engineering technicians.

# Labour's foreign student targets were lower, says Boyson

A fall of between 17 and 20 per cent in the number of foreign students accepted in Britain next year would not reduce the figures to those planned by the previous Labour Government, Dr Rhodes Boyson, under secretary for higher education, said in the House of Commons.

He said: "There is a decrease in the number of applications of 12 per cent up to the end of March this year compared with last year, and six per cent compared with two years ago."

However, it should be remembered that only one in four of those who applied last year was accepted at that time and many must have had the necessary qualifications for acceptance.

"A fall of between 17 and 20 per cent in the number of foreign students accepted would not reduce the figures to the numbers planned by the previous Labour Government."

# Cash cut forces adult advice project to close

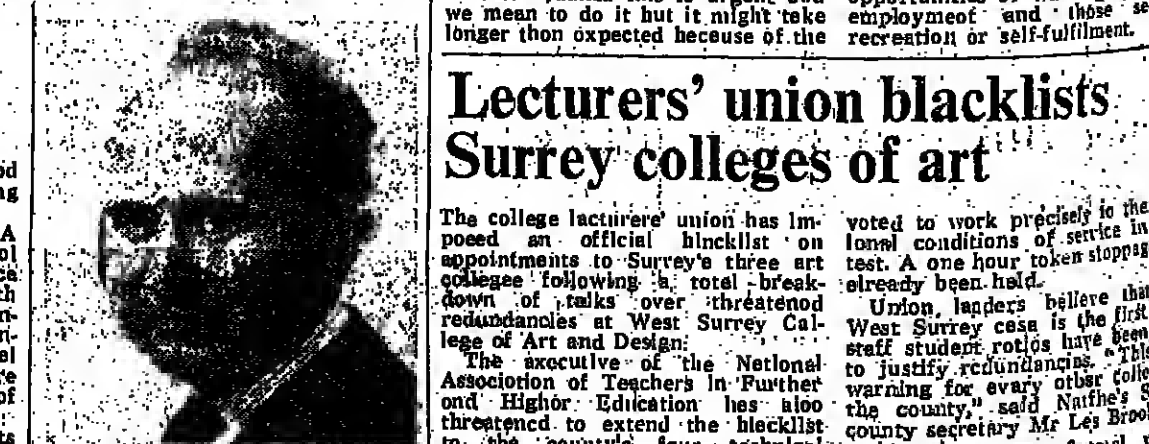
Merseyside's educational guidance service for adults (MEGSA), which spans the Liverpool and Cheshire areas, is being forced to close after only two years in operation.

Cheshire local education authority has decided to recall MEGSA's project director, Mr Colin Martin, who has been based at the North Cheshire college of higher education.

MEGSA, which was set up in 1976 as a result of a move by the Merseyside and district Institute of Adult Education, is one of only 21 educational guidance services for adults throughout Britain.

The service has a twin base in Liverpool and Wirlington, so a comparison could be made between the differing needs of a long established metropolitan area and a borough with a large new town development.

Last year the service dealt with more than 600 clients aged between 21 and 74, the majority of whom were seeking entry to higher education. Most of them were full-time employed men aged between 25 and



Strathclyde University's next principal and vice-chancellor will be Professor Graham John Mills (above), senior deputy vice-chancellor of the University. He is expected to take up his appointment in November 1980, succeeding Sir Samuel Curran.

Professor Mills (54) has been deputy vice-chancellor of Southampton since 1976, having joined the university as professor of physical chemistry in 1962.

During his 18 years at Southampton, Professor Mills has held several senior administrative posts.

# Teaching staff canvassed on PGCE

A major study of teacher education attitudes in the postgraduate Certificate in Education, covering 30 universities in England and Wales, was launched by Leicester University's school of education last week.

The study, probably the first of its kind, is in the form of a questionnaire, and is an anonymous questionnaire containing over 60 questions which it is hoped a fair proportion of teaching staff will be willing to answer.

It is part of a much larger three-year research project on the PGCE, an undertaking with a grant of nearly 70,000 from the Department of Education and Science. The project, which emerged as a result of a series of discussions with the Universities Council for the Education of Teachers began last year. So far it has

# Unit threat lifted

The threat to the Further Education Unit's staffing has now been lifted. The Department of Education and Science agreed last week that two development officers would be appointed as from September 1.

Earlier an urgent special meeting of the unit's board of management was convened to oppose proposals by the DES not to allow the appointment of a second officer until April 1, or possibly not at all in order to effect savings.

# Teaching staff canvassed on PGCE

A major study of teacher education attitudes in the postgraduate Certificate in Education, covering 30 universities in England and Wales, was launched by Leicester University's school of education last week.

The study, probably the first of its kind, is in the form of a questionnaire, and is an anonymous questionnaire containing over 60 questions which it is hoped a fair proportion of teaching staff will be willing to answer.

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## North American News

# Federates week salute to learning

from Clive Cookson

WASHINGTON President Carter proclaimed "salute to learning" week in the United States last week to celebrate the official opening of the new cabinet-level education department.

The festivities started with the unveiling of a new United States postage stamp based on an abstract painting entitled "lumage to the square: glow" by the late Joseph Albers. Mr Albers did not intend his work to have anything to do with education, but Shirley Hufstедler, the first secretary of education, said it was an appropriate symbol of her department as "a vibrant constructive force for good in this country. In intent it should have a ripple effect—depicted schematically by Albers—starting from a deep solid base and reaching out to more and more people each year, spreading a glow throughout American education". The stamp, which will actually be issued in September, bears the legend "learning never ends".

From then on Mrs Hufstедler was caught up in a steady stream of celebrations and public relations activities: speeches, visits to schools and colleges, and more unveilings in busts of Horace Mann, the father of American public education, at the National Portrait Gallery, and the new departmental flag, showing an eagle and sun, took their place at the White House.

President Carter officially inaugurated the department at a ceremony on the south lawn of the White House with his wife Rosalynn and 12-year-old daughter Amy, called by the Education Department "the first student of the country".

"If we are to prevail against our challenges, we need a tough new commitment to education in America," said Mr Carter. "The new Department of Education can

be the catalyst for this new commitment. He had promised to give education its own seat in his cabinet and its own federal department during his 1976 election campaign. Last October Congress finally approved legislation setting up the Education Department—without giving the federal government a larger role in education, which is primarily a state responsibility.

Mrs Hufstедler, a federal appeals court judge from California, was sworn in as education secretary at the beginning of December, and for the past five months she has been welding together the \$14 billion a year worth of spending programmes and 17,000 employees that make up the department.

Washington education lobbyists do not give Mrs Hufstедler high marks for her organizational efforts. They say that the 200 outside experts and consultants she brought in for the task created unnecessary confusion, extra work and bad feelings with the educational establishment.

But they generally approved of the men and women she selected to fill the department's permanent senior positions.

Although most of the activities in "salute to learning week" were all show and symbolism, there was one serious event, a symposium at the Brookings Institution on the federal role of education. The participants showed considerable disagreement about how deeply the education department should become involved in the affairs of schools and colleges.

Undersecretary Minter advocated using the new power and visibility of education in the government to advance "excellence, racial equality and social justice in education". Harold Howe, vice-president of the Ford Foundation and United States commissioner of education under President Johnson, agreed that the department should use its



Shirley Hufstедler unveils the new US postage stamp to mark the opening of the Education Department.

financial clout to attack discrimination on the grounds of sex or race.

Other speakers from outside the government, such as Jack Palston, president of the American Council on Education, used the Brookings seminar to warn the department not to interfere with schools and universities, except where necessary to enforce anti-discrimination laws and the proper accounting.

Carolyn Warner, state schools superintendent for Arizona, urged more federal funding to help schools and colleges meet the costs

of Washington's regulations.

One possible new federal role, suggested at the seminar, was to reduce the present inequalities in education spending from state to state. Both Mr Howe and David Breneman, an education expert at the Brookings, thought this might be a new thrust for the 1980s.

However, if Republican candidate Ronald Reagan wins the November presidential election, all these discussions could be irrelevant. He has promised to dismantle the education department.

## UN fund for Third World technology

A new United Nations fund to support science and technology in the Third World starts life this week.

However, governments have not yet donated any money to the fund, far short of the \$250 million figure of \$250 million agreed at the August's United Nations Conference on Science and Technology for Development (UNCSTD) in Vienna.

Sources at the United Nations Development Programme, which is administering the fund, said that the fund is not yet open for donations. It is expected to be open by the end of the year.

The fund was set up as a result of the UNCTD meeting in Vienna between the developed and the Third World countries.

But in the face of criticism by the industrialized nations, the fund has been delayed. It was supposed to be open by the end of the year, but it is now expected to be open by the end of the year.

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## Overseas News

# President's wage cut in cheating scandal

from Martin Rath

TOKYO

A major cheating scandal at one of Japan's leading private universities, Waseda, has been partially resolved with a decision to cut the university president's salary in half for a month.

Earlier this year, in connection with the affair, police had arrested three university officials, two faculty members and a professor. The professor had been dismissed, and a university administrator official had committed suicide. These actions caused revelations that parents of prospective students had paid a total of 100 million yen (about £100 million) to advance their university entrance examination papers.

Waseda, founded in Tokyo in 1882, is regarded as one of Japan's most prestigious private universities. Graduates are "virtually" guaranteed lucrative careers in government or with major companies.

In February, 23,000 candidates competed for 2,000 places in the

roomer faculty. Results were posted in March, and simultaneously the university president, Takauchi Shimizu, announced that officials had discovered that a number of candidates had seen advance copies of some papers.

Following police investigations, three university officials admitted stealing the papers from the Waseda print shop, and selling them to a retired school teacher, who resold the papers, complete with model answers, to parents of his former pupils. He charged on ten million yen (£10,000) for each set of papers. All four men were arrested and are currently in jail awaiting trial.

A later Professor Yasunobu Ichikawa, a physical education instructor in the education faculty and the coach of Japan's boxing team at the Rome and Tokyo Olympics, admitted that he had passed ten million yen to one of the cheated officials in return for copies of the papers. He insisted that after second thoughts he had burnt the papers, but

university officials said they believed he had shown them to two candidates. An emergency meeting of the faculty voted in dismis him. Following Japanese custom, the deans of the education and commerce faculties resigned to accept responsibility for the scandal.

At the end of March a 55 years old administration officer who had also been questioned by police in connection with the affair committed suicide by throwing himself in front of a train. He left a note declaring his innocence and ending "Waseda Banai" (Long Live Waseda).

At about the same time a preparatory school director under arrest on unrelated fraud charges declared that a lack of admission route in the Waseda commerce faculty had existed since 1973. He said sums of up to 15 million yen (£2,250,000) were channelled through the secretary of a Liberal Democratic Party politician to ensure a candidate's admission. But subsequent police enquiries

could prove nothing and no arrests were made.

In April the affair was declared over from the university's point of view when the board of trustees, the supreme governing body, refused to accept President Shimizu's resignation, but cut his salary instead. At the same time three administration directors resigned to accept responsibility for the affair.

The university also announced that inquiries showed that a total of 14 students were suspected in having passed the entrance examinations through cheating, but that all had agreed not to enrol.

Public reaction has been harsh. Criticism of Waseda has been especially strong. And newspapers have called on the government to take steps to upgrade the quality of education at the less prestigious universities and many people have suggested that business and government should put more weight on the academic record and personality of potential employees, instead of selecting them according to which university they attended.

## Germans fail in bid against reforms

from James Hutchinson

NONN

The West German federal constitutional court has rejected emphatically by parents and pupils about a reorganisation of senior form grammar school education. The changes, the court decided, were not unconstitutional.

In recent years the German *Länder*, which have a large degree of autonomy in educational affairs, have been introducing legislation to "reform" the curriculum in the two senior forms of the grammar school—roughly the equivalent of the grammar schools. As a result of this only four subjects are now taken in the *abitur*, the final grammar school examination and the entry permit to the universities.

This has caused controversy in a number of states. Opponents of the new system argue that the *abitur* can no longer be regarded as a certificate of a broadly-based education. Some university teachers, faced with falling entry standards, are hoping to fill in gaps in the general education of new students.

The case was brought to the constitutional court by a group of 20 parents and pupils in the state of Hesse. They claimed that the practice of dropping many subjects in the run up to the *abitur* broke the continuity of the gymnasium course. The *abitur* had become an empty shell.

Forced to decide what kind of education their children should have was being violated. Young people, most of whom were still minors, were left by the schools to make up their own minds. There was no legal provision for parents to have a say.

The court did not agree. Parents, it decided, were adequately consulted. Further, it was the task of the state parliaments to determine what kind of school education should be offered.

## Steps taken to heal student rift

by Guy Neave

Serious attempts are underway to heal the rift between French student movements. Meeting at the University of Nanterre last week, 629 delegates from the non-Communist left took the first steps in the setting up of a new student body.

Since the events of May, 1968, the student movement has been split between the *Union Nationale des Etudiants de France* (UNEF) and the *Union Nationale des Etudiants de France* (UNEF). The latter group (though jealous of their autonomy) supported the other student union—the *Union Nationale des Etudiants de France* (UNEF). The latter group (though jealous of their autonomy) supported the other student union—the *Union Nationale des Etudiants de France* (UNEF).

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## Lecturers attack plans to axe teacher training

from Geoff Maslin

MELBOURNE

The Federation of Australian University Staff Associations has strongly criticised projections by the Federal Tertiary Education Commission which predict a marked downturn in the demand for teacher graduates in the 1980s.

According to the commission, the demand for graduates from teacher training institutions is expected to fall by more than a third, from 17,500 in 1979 to 11,200 in 1989.

A report prepared for the commission by Dr Mary Turner of the La Trobe University, questions both the validity of the TEC predictions and the planning strategy derived from them. Dr Turner's report describes the TEC's assessments as "naïve" and says it is not possible to rule out the possibility of deliberate deception.

The federation believes the TEC document has already been used to justify cuts in finance for teacher education, to reduce the number of students in training and to prepare the ground for staff reductions. While university faculties of education are not under direct threat, several Australian teachers' colleges face closure if student numbers continue to fall.

In his report, Dr Turner says there are a number of errors in the calculations and tabulations of the TEC assessment which depress the size of the enrolments in pre-service teacher education below what they should be based on the TEC's own assumptions.

Australia faces a sharp decline in primary school enrolments in the middle 1980s followed by an increase in student numbers by the end of the decade, a marked decline in most teacher training colleges have sharply cut back on student teachers.

The spokesman said the working paper was not intended to be used for policy formulation and would be revised following input from the TEC's own assumptions.

Teacher training institutions are worried that the TEC's predictions will in fact be used by the TEC in determining how much money it will allocate to them in the 1982-84 triennium—a decision the TEC is presently considering.

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## Science and technology deal signed

The United States and Japan have signed a five-year science and technology agreement that goes much further in promoting direct collaboration than any previous agreement. The Americans have made with another country.

The White House says it represents a new mechanism for developed countries to work together in solving global important research and development problems. It allows advanced nations to pool resources rather than duplicate efforts in a variety of areas.

Although the United States has science and technology agreements with many other countries, including China and the Soviet Union. They usually involve only joint seminars and scientific meetings, exchanges of students and scholars, and perhaps a few collaborative experiments.

## Research cash rise

Canada's three research granting councils will get the big budget increases for 1981 that they had been promised by the Conservative government before its defeat in February's general election. John Roberts, science minister in the new Liberal Government, said the natural sciences and engineering research council will receive a 35 per cent increase to \$163m, the Medical Research Council will get 17 per cent more (new total \$82m) and the social sciences and humanities research council 16 per cent more (\$42m).

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## Muted acknowledgement for the tenth anniversary of Kent state deaths

Ten years ago, President Nixon ordered American troops into Cambodia and touched off the most violent cycle of student protests in the country's history. Eight students were killed in late April and early May, 1970.

The anniversary has been marked by a minor wave of newspaper and magazine articles but few acts of remembrance on the nation's campuses. However, at Kent State University, scene of the worst incident of all, about 1,500 people did gather to remember the shooting of four students by the Ohio National Guard on May 4, 1970.

The crowd stood there for a moment of silence at 12:24 pm, the

time of the 13-second fullblast 10 years earlier that killed Allison Krause, Sandra Scheuer, Jeffrey Miller and William Schroder, and wounded nine other students. The night before there had been a candlelight vigil—as on every previous anniversary—and a memorial service.

Several veteran anti-war and civil rights campaigners went to the commemoration, including David Dellinger, George Weid, Bella Abzug and Kwame Ture (formerly Stokely Carmichael). Some of the wounded were there too, including Dean Kahler, now 30, who was shot in the elbow and has been confined to a wheelchair ever since.

Before and after the moment of silence, part of the crowd marched across Blanket Hill, the site of the shootings, chanting slogans such as "make jobs, not war" and "honor the dead". But it was fortunately an extremely placid demonstration compared to the one 10 years ago.

By all accounts Kent State today has a generally quiet student body. The last major protest there came in 1977 when students put up a "Kent City" on Blanket Hill in an unsuccessful attempt to block the university's plans to build a gymnasium on the site and, it was alleged, deliberately to erase the memory of the shootings. Two hundred students were arrested but the protests faded away and the gym is now complete and in use.

The legal fallout from the shootings did not finally settle until January, 1979, when, after several criminal and civil trials and retrials, the wounded students and the parents of the dead accepted an out-of-court settlement. They received \$675,000 and a statement of apology.

The memorial bell actually tallied 20 times during the month's remembrance ceremony at Kent State, because that was the total number of deaths caused by campus protests in the United States during the 1960s and early 70s. The other four students who died in the violence of April and May, 1970, were: Kevin Moran of the University of California, Santa Barbara, shot accidentally by a policeman as he tried to defuse a bomb; and James Ray, a senior high school pupil, killed by Mississippi Highway Patrolmen at a protest on the Jackson State campus. (Some blacks claim the Jackson State shootings have been compared to Kent State, because they occurred at a black college.)



Flashback to June, 1970: a student demonstrator hurls a canister at riot squad police in the wake of the Kent State shootings.

## NATIONAL COUNCIL FOR DRAMA TRAINING

Extension of Accreditation Procedures to include Stage Management Courses.

The National Council for Drama Training (NCDT), which is currently engaged in drawing up a list of acting courses to which it grants its accreditation, proposes to extend its accreditation procedures during the academic year 1980/81 to cover Stage Management courses. NCDT accreditation, when granted, will have important implications not only for students, but also for institutions running Stage Management courses, in the following areas:

- maintenance of high standards of training
- student grants
- links with the theatrical profession
- entry into the profession

The granting of NCDT accreditation will be a two-stage process. First, institutions must meet certain criteria in order to qualify for an accreditation visit. Then they will be visited by a group of assessors drawn from the NCDT's Accreditation Panel, on which all branches of the profession are represented. When all institutions which meet the qualifying criteria and which apply for accreditation have been visited, the NCDT (on the advice of the Accreditation Panel) will publish a list of those Stage Management courses which qualify for NCDT accreditation. Accreditation visits will commence in October 1980 and it is expected that the NCDT will be in a position to publish its list of accredited courses by the end of the 1980/81 academic year.

It is not necessary for institutions to be members of the Conference of Drama Schools in order to apply for NCDT accreditation, but it is necessary for the institutions concerned to meet the qualifying criteria in respect of their courses, details of which are obtainable from the NCDT at the address given below.

Institutions wishing to apply for NCDT accreditation of their Stage Management courses should make application to the Secretary, National Council for Drama Training, 5, Tavistock Place, London WC1H 9SS by June 30, 1980.







Simon Midgley visits the City University of New York, the 'proletarian Harvard', bloody but unbowed after a decade of crisis, closure and bankruptcy. He finds a complex organism.

## Rich tradition of America's 'Poor University'

The third largest university in the United States is a hardy bloom. To withstand the inclement political and economic climate of one of the toughest cities in the world—New York—it has to be.

The City University of New York is inadequately funded, poorly housed and especially vulnerable to public spending cuts.

Despite these suppositions, CUNY, as it is affectionately known by its alumni, more than survives. It flourishes with extraordinary élan and tenacity.

The only municipal university in the city and the largest in the nation, it has always had a special commitment to educating the children of "the working man".

Dating back to 1847, when the free academy for men was established by public referendum, this social goal was expressed in the words of the fledgling institution's first president as an "experiment" to see whether "the highest education" could be given to the "masses... the children of the whole people".

Dubbed verily over the years as "the proletarian Harvard" and "the university of the poor" it has made the task of educating those from deprived, underprivileged and immigrant backgrounds its own in a city and state well supplied with private universities more interested in meeting the needs of the affluent and generally in the middle classes.

Today the university is a vast, intricately articulated web of eight community colleges, nine senior colleges, a graduate school and an affiliated medical school serving a city of 7.2 million people more than three-quarters of whom are members of minority groups.

The ethnic demography of New York is reflected in the racial diversity of the university's student body. In 1978, 30 per cent of undergraduates were black, 16 per cent hispanic, 4 per cent oriental and just over 50 per cent American-born.

White students accounted for just under half the clientele. Although it is itself perhaps not very illuminating, the sheer grandeur of the statistics involved does at least hint of a sense of the scale of the enterprise which by British standards is immense.

At present for example 177,000 full- and part-time undergraduate and graduate students are being taught by 5,000 full- and part-time faculty on 100 different academic programmes.

This financial year (1979-80) alone the university is to spend more than \$95 million dollars on funding an operation which extends to 20 campuses scattered across the five city boroughs.

There is no precise analogue in Britain. CUNY is rather like a university, a polytechnic and a technical college all rolled into one. Career-oriented associate degree programmes in dental hygiene, supermarket management, or medical secretarial science may be pursued at the community college level, while traditional arts and science courses are ranged alongside vocational and professional areas of study in the senior colleges where students work towards a BA, MA or PhD.

At the highest levels the graduates school and some of the senior colleges house some of the most distinguished faculty and respected doctorate programmes. In the country while at the other end of the scale as many as 70 per cent of students entering community colleges need to take at least one remedial course in reading, composition, or computational skills.

The university presents a complex, multi-faceted face when jockeying for funds in the political arena, or when projecting a PR image to the rest of the nation. However, at the heart of the institution there is a world of difference between Kingsborough Community College in Brooklyn, catering for white middle-class students in a magnificent \$600 million building overlooking the ocean, and the Englewood Campus in the Bronx.

Community College, 75 per cent of whose students are hispanic in origin, which is housed in a converted factory building in the economically depressed South Bronx.

Like many American colleges CUNY is an open-access institution. Here this means that any high school graduate is guaranteed a place in a community college but entry to a senior college can only be secured if the student attains a grade point average of 2.0 or over.

Even then the student may not secure a place in the senior college of his choice if he fails to obtain a grade point average that is competitive with that of his better applicants.

The "university system" is articulated in the sense that all the community colleges offer courses of study in the liberal arts and the sciences which parallel the first two years of study at a senior college.

Students who complete their associate degree and who pass a basic skills test are then entitled to transfer to the junior year of a senior college with full credit given for their earlier work.

Open admissions represent a superbly optimistic view of human potential. Higher educational opportunities are made available to as many students as possible and a great deal of money and effort is expended in trying to support the less well prepared through remedial and counselling services. Last year, for example, the university spent \$10 million dollars on remediation.

Positively discriminatory moves are also made to help the economically and educationally disadvantaged by offering them extra counselling, remedial instruction, tutorial services and supplementary finance in specially designed additional programmes.

Through the SEEK Programme (Search for Education, Knowledge and Employment) disadvantaged students who scored less than an 80 grade point average are offered the opportunity of studying at a senior college.

Eleven per cent of the senior college undergraduate population of 91,964 are currently studying in this programme.

At the community college level the College Discovery programme makes extra counselling and financial aid available to less well prepared high school graduates. This programme currently accounts for 7 per cent of the 68,706 community college students.

Having earned a place in a community college or senior college a student then has to maintain a rising grade point average to remain in the system.

In future students will also have to surmount a further hurdle before being eligible for entry to the third year of the senior college or transferring from the community college to the senior college—they will be required to pass a Freshman Skills Assessment Test in reading, composition and computational skills.

Adding to the complexity of the system is the fact that many community colleges in two years and a half award a baccalaureate degree to a senior college. In four years after students take far longer to reach up the ladder of academic degrees or credits.

This is partly because many people enter college relatively badly prepared by their high schools and partly because many as half of all community college students and a quarter of all senior college students come as mature students—many of whom will be holding down a full-time job and studying part time. (In 1978 more than 61,000 students were enrolled on part-time credit granting courses.)

The relatively low admission standards for community colleges, the disadvantaged nature of the clientele, the difficulties of combining part-time study with employment



The archway of the North Campus at CUNY.

ment and the escalating academic standards once inside the system, it is not surprising that every year around 17,000 students drop out having either failed to make the grade or having chosen to leave for other reasons.

The university itself is grounded in a finely judged compromise. On the one hand, to justify the name it must be seen to be maintaining academic standards, attracting distinguished faculty, and producing high quality graduates.

On the other hand, it is acutely aware of its responsibility to remedy disadvantage and prepare students for the world of work in less academic and more vocationally orientated courses. (Nevertheless the opportunity is there for the once severely disadvantaged to rise through the system and achieve the highest distinction.)

This ambivalence is neatly reflected in the two-tier structure of colleges. On the whole the community colleges offer basically similar opportunities for studying—the liberal arts and sciences and a diverse range of non-transfer terminal courses in more practical career oriented areas, for example, in numerous technical, artistic, commercial and medical fields.

Traditionally the community colleges have served the needs of their local communities, drawing many of their students from their immediate neighbourhoods and boroughs and making special efforts to relate their educational provision to local needs.

Since 1976 when the university tightened admission criteria and introduced retention standards there has been a more marked contrast between the constituency of students attending senior and junior colleges.

The latter tend to attract a higher proportion of less well prepared students who because of their relationship between income, race and achievement are often from economically disadvantaged classes and minority ethnic groups.

Many of the senior colleges on the other hand still continue to attract a relatively high proportion of white middle-class students.

At the upper level most of the senior colleges offer a traditional range of arts and science degrees combined with advanced vocational and professional courses.

More than half of the senior colleges offer a range of courses of excellence for particular kinds of training. For example, the John Jay College of Criminal Justice specialises in the training of police men and the Bernard M. Baruch College in midtown Manhattan concentrates on the study of business and public administration.

Several of the older institutions have world-class reputations; for example, the City College of New York, founded in 1862, has a long tradition of excellence in the study of literature and the arts. Its graduates have gone on to win Nobel prizes. It is second in the nation in educating undergraduates who ultimately earn their PhDs and several graduates who are elected to the National Academy of Sciences.

At the top of the academic tree is the university's graduate centre which promotes and coordinates advanced degree work in the senior colleges and funds 180 distinguished scholars—40 or 50 of whom are based in the graduate centre building on West 42nd Street—while the rest are distributed among eight university campuses.

In 1967 the Mount Sinai School of Medicine affiliated to the university—although it remains financially autonomous and self-supporting under its own board of trustees.

CUNY is, then, a highly complex and variegated animal: reflecting the diverse needs of a rapidly changing and heterogeneous metropolitan environment it offers a vast range of study opportunities at many levels in a variety of settings. Environmental, architectural and ethnic contrasts abound.

Despite the richness of this diversity, however, and the geographic and intellectual space separating college from college and senior from junior, the institutions remain locked together in the intimate symbiosis of the transfer system.

Although there are centrifugal forces at work, for example, some colleges consider themselves closer to economic values than others and seek an academic reputation independently of their parent body, the centrifugal forces are on balance stronger.

Funds for the individual colleges, for example, are allocated by a central office presided over by a chief academic and administrative officer—the chancellor.

In addition there is the one staff union for all the university's academic personnel, the student union, and the admissions system are centrally administered, and computer facilities are shared.

There is also perhaps a more profound sense in which the university has had to pool together and recognise a shared destiny.

In the mid-1970s the City University of New York was dealt a catastrophic blow after its last city council announced to the world that it was on the brink of bankruptcy.

Three years of stringent budgets and endless controversy about how the university could save money finally culminated in 1976 with the temporary closure of the university after it ran out of funds.

A condition of the State of New York, eventually agreeing to bail out CUNY, was the end of one of the university's most famous assets—the 123-year-old tradition of offering city-based students free tuition.

Between the academic years 1975-76 and 1977-78 the university suffered a budget cut unparalleled in the experience of any major university in the United States.

Despite the fact that students were protected from being the brunt of the new tuition charges by state and federal welfare aid programmes their numbers have dropped by 18.8 per cent since 1975. Most seriously affected have been part-time numbers which have dropped by nearly 50 per cent. (There is no aid available for part-time students.)

The measures had the combined effect of hitting the weakest link—of paralyzing the working poor, the very people for whom the university had traditionally been especially responsible.

A longer term consequence of the financial crisis has been a fundamental shift in the control of the university. Up until 1976 the City and the State shared the responsibility of the funding of the university. Now the State is in the process of taking over all responsibility for public funding of senior colleges. (It already has control of the new Board of Trustees.)

There is also some doubt about the city's willingness and ability to continue funding the community colleges. In recent years New York has resorted to reducing the budgets of all public services in an attempt to stabilize its finances and equilibrium does not appear to have been achieved yet.

On the academic front the university is adopting a highly astute approach to the changing (and often conflicting) demands for new vocational courses which could only have a limited life but might involve heavy investment. The important thing said the chancellor, Robert Kibbles is to "fine tune the system".

On an institutional level there is concern that the identity of individual colleges should not become blurred. In future it seems likely that colleges at all levels of the system will be encouraged to reduce their academic missions to the duplication of what is done elsewhere.

The problem of telling students in subjects for which students demand has fallen will also have to be met. Although there are unlikely to be any redundancies among tenured staff (more than 90 per cent of the professoriate) there will be a major restructuring of the faculty. Staff retrenching, redeploying and early retirement are all options.

One of the principal challenges the university will face in the next 16 years is slimming down its response to demographic changes caused by demographic changes. Crucial questions currently being asked include how to preserve staff morale and how to protect the integrity of individual disciplines.

In short, the City University of New York is facing many of the same kind of problems that universities throughout Western Europe and North America are currently being confronted by—but in CUNY's case the problems are more acute and the stakes are higher.

The end of free tuition, the adverse publicity the raising of admission and retention standards, the cut back in course offerings and student services: all conspired to threaten the future of the university.

At the heart of the university is a complex organism. At the top of the academic tree is the university's graduate centre which promotes and coordinates advanced degree work in the senior colleges and funds 180 distinguished scholars—40 or 50 of whom are based in the graduate centre building on West 42nd Street—while the rest are distributed among eight university campuses.

## Sax and the solo artist—or how the festival was won

The National Student Drama Festival has long been lumbered with a sort of retrospective prestige. "How interesting," people say when they read the programme. "You know Timothy West, the chap who's just playing Churchill on television?" Well, he was in the very first festival, in 1956. Directing a Thornton Wilder play.

It is understandable that the seeds only become interesting when the flower blossoms, but this year's festival, the twenty fifth, has thrown up a few plays and performances that deserve a mention before pasty time grabs them.

Two of the eight productions which transferred from last month's festival in Southampton for a limited run at the Old Vic are to have another airing at Edinburgh in the summer. One of these is the York University entry, *Milkcrane*, which in Southampton picked up more prizes than it has actors. It bears out the time-honoured principle, that if you haven't got a play to suit your star, then write one.

In this case it was the star in question, James Maw, who did just that, in conjunction with saxophone player Andy Hampton. Maw plays the part of a high-fashion punk who keeps embarrassing himself with his own excesses. He comes across as a kind of middle-class Sax Pistol strutting in front of his betters, but who would blush if his mother walked in.

The score is very subtly worked by Hampton to keep pace with the lead's changing moods of violence, confusion and fantasy. It is a genuine tour de force of words and music with a strangely 1950s feel to it, given the aggressively late 1970s placing.

The sparse houses at the Old Vic were hardly the place for something that owes more to cabaret than to drama, but it is hard to see this production being anything other than a name-checker in the grand manner when it gets to Edinburgh. James Maw has already captured a deal of critical acclaim in Southampton, and he does it by giving a deceptive impression of versatility. Deceptive, because he is in fact sticking rigidly to just two modes of comic caricature which happen to be at either pole of the social spectrum.

In case audiences might worry that the York is turning the play into a very old version of a miniclog trend, then cutting back and forth between that and the punk

with his fantasia of picking up a debutante on the train home. Maw and Hampton picked up the Best Actor and Best Music awards respectively, and on the showing at the Old Vic, no one would doubt they will be glad to swap the sight of an ocean of empty seats for the 100-seat auditorium in Albany Street, Edinburgh.

Near by in the Heriot Watt Theatre will be the other Southampton "veteran", a haunting and enigmatic work called *Kafka's Last Request*. With their tradition of success in the festival it is not surprising to find Brecht Hall College, Wakefield, casting students again. This was the winner of the Sunday Times Playwriting Award this year. Any echoes of Beckett in the title are not entirely misleading. The author and director, Eric Wakefield, has taken extracts of Kafka's diaries between 1910 and 1923 and scattered them into the mouths of a five-strong unit with an androgynous "K" figure as the pivot.

Broken down and then regrouped in this way, the extracts turn into a tortured chronicle of Kafka's descent into despair at the end of his life. The five are dressed like bank clerks and move in patterns around a bare and lugubrious stage, freezing into motionless tableaux. It is a device by which the sinister phonetics that for Kafka lurked behind bureaucracy, as in *The Trial*, are strangely embodied.

The Kafka figure, which is at once led by and leading the chorus, is played with pathos by Chorus Bryan, and her performance should attract as much attention as James Maw's when the play arrives in Edinburgh.

In a year which has seen a glut of new and modern plays, as well as those in the "group creation" category, the classics have got a scant showing. However, Dickens was there by courtesy of the Royal Scottish Academy of Music and Drama, and their brave version of *Great Expectations*.

A compact cast and a Dickensian gallery of characters were hardly made with each other in mind: in this adaptation there are 32 of the first and eight of the second. The play is a non-competitive role and appeared only in special invitation performances. But it was distinguished by Anglo-Farrows' own director and by the plausibility which the National Student Theatre Company managed to give to the middle-aged parts.

being strained to breaking point. As each character appears, he or she reels off a verbatim textual account of his or her physical characteristics, often in ludicrously explicit contradiction of appearance.

Dickens would have applauded the thoroughness of this transcription by the director, Edward Argent and his six collaborators, but it is their very insistence on fullness that plants the seeds of dramatic failure.

If Bretton Hall's second contribution to the festival almost overtook itself, it did so for a slightly different reason. Shant Pronger's *Peter's Wheel* is an exuberant mass of a play which was saved from an even greater incomprehensibility than the author had in mind by a collection of very committed performances.

In Southampton it won the Best Production Award, and again with good reason. But when on earth is going on? Libby Porter appears to have been wounded when her husband, a British Army colonel, is killed in an Ulster car bomb. Then she finds herself in an internment centre, or is it a training camp, where she receives the bestial attentions of a man in a dark suit. There are guards. There are inmates making playing chess. There is the weather that darkens symbolically on the landscape outside. There is probably an essay on emotional

thrallism struggling to get out. When detractors of this festival complain that it has germs of ideas in the way a school sanitarium has germs, it is possibly this kind of obscure work which they have in mind. But Shant Pronger is rightly unrepentant of it: what you can make of it is what you will. There is some writing of a high, quirky order here, and if he only manages to shuffle his cards with a little more precision, he is bound to come up with something of real value.

It was Anne Corbett's Libby which won her the Best Actress Award. There was nothing cryptic about *Privilege*, *Privation*, *Privet Hedge* by Anglo-Farrows, who in 1974 won the playwrighting award for *The Blue One*. She has spent the time since then as a teacher, and you can see why she has given up to direct and write with Bristol's Bush Telegraph. Her play is a farewell to the staff-room. Headmaster delivers admonitions in

Alan Franks picks the plays from this year's National Student Drama Festival that should stand the test of time



Andy Hampton (left) and James Maw in *Milkcrane*

Stanley Unwin-style gobbledegook; deny her being a mountain of in-laws defends the importance of administration; gossamer spinner defends dignity; gaffly rebel Bill tries to raise the temperature of this moribund crew through the medium of a point of measure performance as

the morally bankrupt stockbroker and his housekeeper. Nigel Hook's *Curly* flatters one of the hardest parts going in the festival.

The choice of such a play was interesting in itself: full of textbook Leftism and dully conceived parent/enemy figures. Add to that a murder story fit to lure the most hesitant of theatre managements and you have something that might have been cooked up by Agatha Christie after a week's confinement with Karl Marx. All the same, the play is a decade on from studentship, and the Anglo-Farrows and Shant Pronger could learn a thing or two from him. There are worse beacons to be followed.

## Art for art's sake enjoys a Chinese revival

Fine art is not a subject of study that has easily found its way into the curriculum of the new China. It hardly seems relevant to the "four modernisations". It inevitably stresses the affective and the individual. Yet along with the rest of Chinese higher education art colleges have been restored.

Peking's Central Institute of Fine Arts is in a quiet back street just off the city's main shopping street. Its atmosphere is gentle and refined, by the standards of most Chinese colleges. Its walls are not bare but covered with the pictures painted by its students and teachers.

An exhibition of copies of traditional Chinese paintings of the Tang, Sung, and Ming dynasties by the Institute's students has just opened—the first in the Institute's history, and the first in all China, since the end of the Cultural Revolution.

Mr. Chen Pao, the deputy director, explains that competition was intense to enter the Institute. They received very many applications for very few places, 1,000 for 50. Applicants had to submit examples of their work and only some 100 last year were allowed to take the entrance examination, a special one for art students distinct from the normal academic entrance examination for other universities.

The majority are school-leavers, but because of the competition for places the average age of entry is between 18 and 22, higher than for most higher education institutions. There is a special senior middle school year, aged 14 to 16, which is attached to the Institute. It is a boarding school to which children of artists, officials, and some from the countryside come from all over China.

In short, the City University of New York is facing many of the same kind of problems that universities throughout Western Europe and North America are currently being confronted by—but in CUNY's case the problems are more acute and the stakes are higher.

At the heart of the university is a complex organism. At the top of the academic tree is the university's graduate centre which promotes and coordinates advanced degree work in the senior colleges and funds 180 distinguished scholars—40 or 50 of whom are based in the graduate centre building on West 42nd Street—while the rest are distributed among eight university campuses.



sculpture, art history and theory. It is planning to create a new department of Chinese Festival painting, and has a sculpture unit and a research unit in wall painting. It has only 203 students, undergraduates, although a considerable expansion is planned and new buildings are going up. It also has 400 staff, of which 150 are favourable to the extra-curricular work. Staff/student ratio has two causes. First, Mr. Chen explained, it was due to the special character of the Institute, which had not only to teach students and conduct research, but also to produce works of art. It was this base of many working

students were all moved on bloc to work in a commune. When they were allowed back to Peking they were subjected to very severe criticism at public meetings and were denounced in big character posters. When the Institute was finally allowed to reopen in 1974, the same was cut from the previous year's to only three and entry standards were deliberately relaxed.

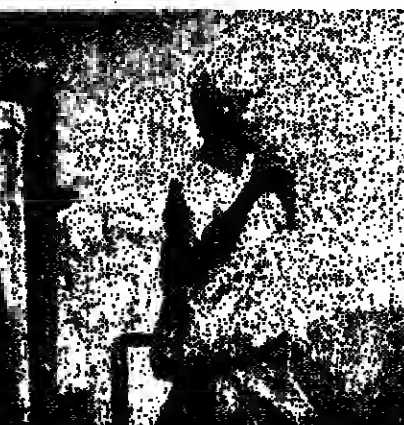
The basic course has now been lengthened again to five years (six for sculpture). A lively debate is now going on within the Institute



about whether to press for an extra year, although Mr. Chen and the majority of his colleagues feel five is sufficient.

Students specialise in one of the four main areas: traditional painting, western painting, sculpture, or graphic design. They all have to study in addition the history and theory of art, Chinese language and literature, and a foreign language (and of course, the ubiquitous political education and physical education).

For the first part of the course



they study basic courses, which include more life drawing which was banned in 1966. For the second part they undertake more creative work.

Perhaps because of the memory of the philistinism the years between 1966 and 1974, and the general rule that fine art can play in China's modernisation, the role of the Institute seems to be to preserve the culture of the past rather than to invent the art of the future.

The result is that life drawing is acceptable because it is a vital aid to improved technique, but abstract art is frowned upon because it is often an expression of ennui and inaccessible individualism. Most of Peking's students become teachers, professional artists, or work in publishing or museums. The Institute is perhaps the leading art institution in China and is responsible directly to the Ministry of Culture, and there are only six others, all with modest numbers.

The Peking Institute's students are clearly very proficient and talented. If they seem to be lacking in creativity, this is much more to do with the difficult conceptions of art in China and the West. In the former esthetics are a question of formal technique and grace, rather than of individual interpretation. In any case the fact that the Institute has survived and is apparently thriving (even if it keeps a low profile) is some indication of the greater diversity that is tolerated in Chinese higher education today. Everything, it seems, is now being sacrificed to the demands of the "four modernisations" as it was to the dogma of the Cultural Revolution.

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continued on page 34



Lyn Gray and Ian Waitt review the distinct approaches of the European Social Fund and the EEC education policy

## Uncommon split on supranational training plan

Britain has been a member of the European Economic Community since 1973. Obvious effects of membership on our national life—such as the Common Agricultural Policy or the effects of substantial net budget contributions—are well known. Less obvious perhaps is the effect of EEC employment legislation which provided a considerable impetus to our own employment protection legislation of the past decade. Recent international events have illustrated the Community's tendency increasingly to act as a political entity. Although slowly, EEC policies may be seen as having a growing effect on the constituent states.

Educational policy has been the subject of much debate, discussion and investigation within the EEC. In parallel to the educational aspirations of the EEC there has been a growing substantial intervention within education and training by means of the European Social Fund. This raises matters of fundamental concern: while the Community makes no distinction between education and training, the intervention of the Social Fund has concentrated available resources in the area of training. The Social Fund, it affects training, responds largely to immediate perceived needs. EEC educational policy has more long term aims. Hence, if EEC educational policy is to have significant impact, it is necessary both to review its aims, and to question whether the current distinct approaches—between education per se and the ESF—require review or reconciliation.

The last decade has seen the establishment of the Directorate-General of the Community for Research, Science and Education, a forum for meetings of the member states' education ministers, an education committee, the recent European Parliament committee for youth, culture, education, information and sport, a separate committee for education (of £3,500,000, or 0.004 per cent of the Community budget), and an action programme in education. The latter recognises the strategic importance of education within the Community, and the inseparability of educational policies from employment and vocational training policies.

The action programme covers six major areas. The education of migrant workers and their children was promoted by the respective member states to provide reception classes for teaching the host country's language, for tuition in the language and culture of the country of origin, and for specialized training. A number of pilot programmes have been established in support of the directive. A second area is that of transition from school to work, where priority has been given to the promotion of information exchanges, studies of common problems, the educational and training needs of school leavers, ways of stimulating higher participation levels in school and work by young people, the development of educational and vocational counselling, and the training of appropriate teachers.

Special attention has been given to the young, to young girls—reflecting the Treaty of Rome's advocacy of equal opportunities for men and women—and to handicapped persons. A programme of pilot projects, evaluation studies, study visits, workshops, seminars, the major part of the action programme is funded by the Community. The Community is concerned to encourage "alternance" schemes linking education, training and work and has set out guidelines for the establishment of coordinated programmes involving close links between employers and education authorities.

The other four action programme areas are foreign language teaching, student and teacher mobility, the study of European problems in schools, and the development of political aspects, and the extension

of information networks and co-operation between education systems. In pursuit of the latter an information centres network is being set up to serve policy makers, exchange information and support the priority areas of the action programme. A descriptive handbook of member states' education systems is also planned.

The incipient educational policies propounded through the action programme have major implications for teacher mobility and teacher education, but progress in both spheres has been, and is likely to remain, very slow. In spite of the Community ideal of free movement of labour there is an exemption in the case of public servants from the freedom of movement laws. As many teachers in the Community could be construed as being public servants there are serious doubts concerning their eligibility to the protection of the freedom of movement legislation.

Lack of command of foreign languages is a major obstacle to professional mobility. The education ministers of the Nine have urged their governments to improve language teaching, to organize training periods for language teachers, and to encourage changes for students and pupils. Tutor-member states exchange for educational administrators, teachers and advisers to observe and discuss language teaching techniques have also been promoted, while the example of the Community schools for the children of EEC officials, such as that at Culham in Oxfordshire, have demonstrated how foreign languages might be used for the teaching of other curricular areas. However, member states jealously preserve their national curricular controls, and are not likely to agree to the supranational Community control of the curriculum. Any rationalization policies for language teaching—whether at primary, secondary or adult and in-service levels—would require.

Similarly, although Community policies would be unlikely to be achievable without some coordination of teacher education, the diversity of member states' teacher training structures and procedures make any such commonality effectively unattainable, while training varies from two-year programmes in non-academic institutions to four to six years for primary and secondary teaching remains quite separate in some states, but integrated in others.

Education is not mentioned directly in the Treaty of Rome but money is set aside to improve employment opportunities for workers in the Common Market.

Philosophies of teacher education, including the relationship between academic study and classroom experience, similarly vary across the community. In that the philosophies reflect deeply entrenched attitudes towards curricula and the role of the teacher, the harmonization and closer integration of teacher training policies within the community does not seem an attainable ideal in the foreseeable future.

Nor does there seem much prospect for the establishment of common policies for the in-service education and retraining of teachers, when, in some member states, there can be only short-term refresher courses varying in length



Special attention is given to encouraging training programmes for young handicapped men and women, involving closer links between employers and education authorities.

from one day to a series of afternoon lectures. The education committee has expressed the view that internal mobility of teachers is a necessary prerequisite to freedom of movement across the Community, and that this should be facilitated by teacher retraining programmes. Again, the fundamental differences in attitudes between member states in this area makes rationalization unlikely. Indeed, the education ministers of member states have been prevented from meeting for over two years, because of the growing fear in some parts of the Community that further progress towards a Community education policy must inevitably weaken national control over fundamental aspects of curriculum and educational planning.

Education is not mentioned at all directly in the Treaty of Rome, although specific reference is made to vocational training. The treaty does allow the 'small' education budget, but in practice much more money is available by way of the Social Fund. The ESF was set up under Article 123 of the Treaty of Rome to improve employment opportunities for workers in the Common Market.

During the early 1970s fundamental reforms greatly extended the activities of the ESF but it was not until 1975 that, in response to the impact of the economic recession, most of the social fund interventions were geared to coping with youth unemployment. Vocational training programmes were set up together with effective placement services.

The European Social Fund is not a public service in the English sense of the words but rather an employment training fund intended to lead to new jobs, employment. The fund gives aid under two headings: temporary aid (under Article 4) and permanent intervention (under Article 5). Five categories of persons benefit under Article 4: persons leaving education, workers in the textile, steel, clothing, industries, young people, women and migrant workers. Under Article 5, fund finance is available to assist regional development, groups of firms and occupational areas, and handicapped workers. It is the allocation of specific financing to promote vocational training which gives the ESF a significant role in post-school education.

Social fund aid is limited to 50 per cent of the total national public expenditure eligible for aid, on the scheme is undertaken by a private organization, on an equal basis, the contribution of the public authorities. Public authorities must also be able to guarantee the scheme's continuation (although this need not be the authorities providing financial support), and aid may be extended over more than three years.

In Britain, ESF finance for vocational training is distributed largely from one day to a series of afternoon lectures. The education committee has expressed the view that internal mobility of teachers is a necessary prerequisite to freedom of movement across the Community, and that this should be facilitated by teacher retraining programmes.

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## A chance to make sense from chaos

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The guiding principle is mutual or really overlapping interests. This is not seen as in conflict with far-reaching but as a necessary reinforcement. Neither is there any illusion that mutual interests are total that hard bargaining can be avoided or so casual that there will not be real problems of devising methods and mobilizing backers. The commission has remembered the real world of classes and companies, positions and human beings from which they had come and this gives their report a sense of immediacy and realism.

The report must first seize the attention of decision makers to have any real impact. To do it has done that. It must convince them that north-south relations are of crucial importance to north and south. It has a chance to do that. After all, by his own admission, he has been a member of the Washington Post and Editorial Board to that view and Layachi Yekter of Algeria to seeing that the north had real problems which had to be among the issues on the agenda of a new global round of negotiations.

There must be speedy action in time on the side of the now internal economic disorder not of those who would control it. As the World Council of Churches advisory group on economic matters put it: "Holding out the possibility of the reversal of these trends may seem minor when contrasted to the full structural changes required. Yet it is the necessary first step towards them." Thus the commission calls for a global economic summit to be negotiated and acted on.

What action is proposed? The areas cited include first massive resource transfers to allow the north to escape recession by export-led growth and the south to avoid stagnation. Second, a strategy to secure adequate supplies at stable prices and to ensure the real value of the financial assets held in the north by OPEC members. Third is a global food strategy to forestall famine and ensure the elimination of hunger and also to end the food price explosion in the north. Fourth is better access for south products (e.g. blended, packed tea) and manufactured goods (e.g. consumer durables) to north markets so they can continue to buy north exports and to service their local markets.

Fifth is the international monetary system where a new reserve asset, less unstable than the dollar and gold, have proven themselves to be needed. The price of getting a genuine international central bank to have broader effective participation in decisions and more concern with sustaining development as well as with managing the balance of payments.

These proposals are articulated on the basis of overlapping interests. They do address themselves to the real dangers: collapse of north exports to the south, massive bank failures, triggered by south default, energy starvation to the south, escalating trade wars. All at levels unseen since the 1930s.

Whether they will be accepted, unclear. Negotiating protectionist interests, national suspicions, the present dynamic of disorder and disintegration all suggest not. But, Programme for Survival may be the last chance to have the disorder as bad as that of the 1930s. It is the only chance of being adopted, acted on and producing a viable new international economic order. The alternative today is chaos.

Whatever else they may be, the proposals are correct on the education and training, rather than the utility to which the Community officially aspires and it is the narrow, defined industrial training to which it is receiving the response.

The authors are lecturers at the Anglia Regional Management Centre, North East London Polytechnic. Ian Waitt is editor of the *College*, a major contribution to the publication of the *Anglia* in 1979.

Peter Wason and Wendy Stainton Rogers describe the difficulties and challenges of writing for the OU

## The art of course angling

In this article we want to talk about the experience of writing for the Open University. We feel that the particular constraints and opportunities within such an institution are both intrinsically interesting and offer potential guidelines for expository writing in general.

The original concept of "The University of the Air" may suggest that television and radio programmes form the basis of Open University teaching. This impression is erroneous; essentially, the Open University is a correspondence university. Information is primarily conveyed to students by means of a word in the form of a "course unit". In the conventional academic setting the text book supplements oral teaching. In the Open University, oral teaching supplements the written word.

The Open University is intended to offer educational opportunities to people who need not have any formal qualifications. So it would be fair to say that writing a course unit is facing an audience of almost unprecedented variation in ability, experience, reading and writing fluency, familiarity with academic style and self-confidence. Our own experience of Open University students is that the only characteristic they all share is an almost overwhelming commitment and determination to succeed. They are also extremely vocal in their views where they consider a line, unashamed in their criticism if they feel that at any level somebody is trying to pull the wool over their eyes. In this group of students we attempt to get over in writing, the knowledge which an undergraduate must acquire about his chosen discipline.

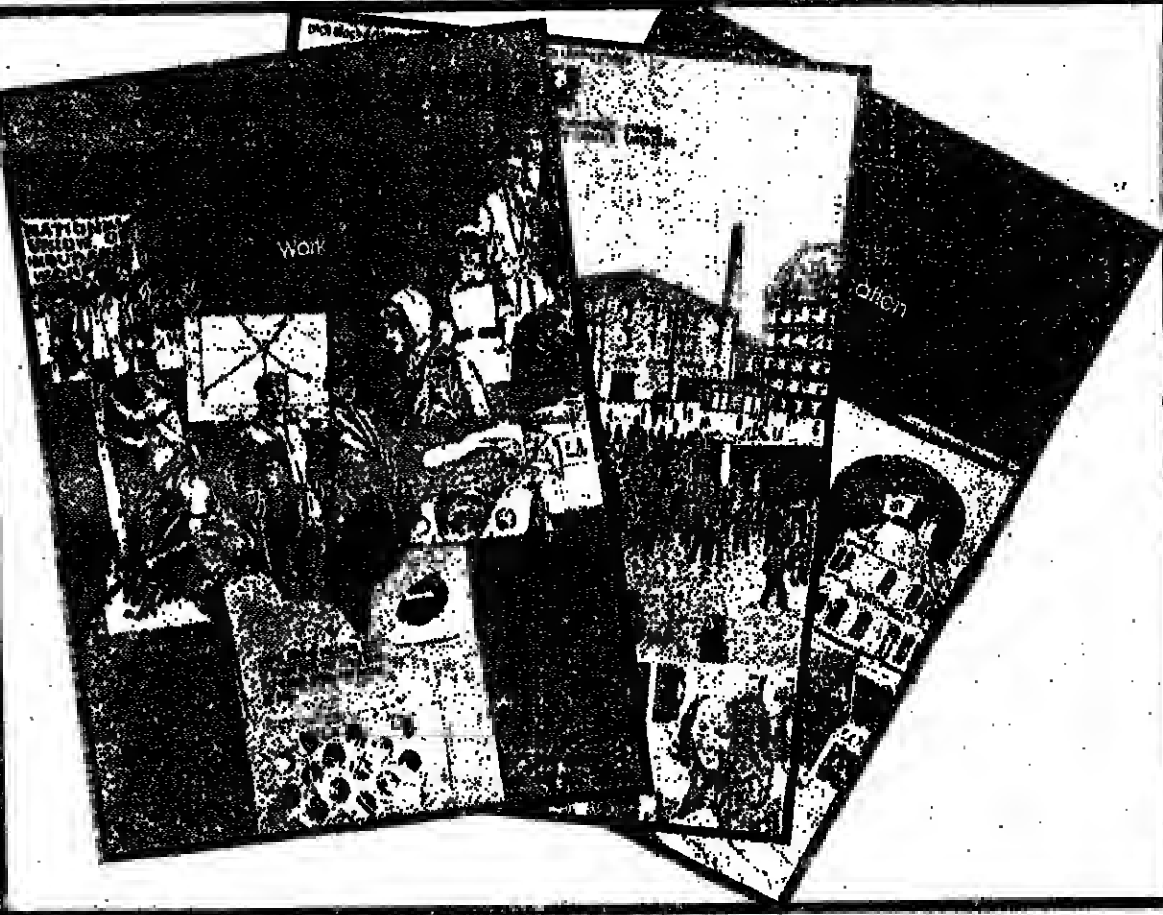
When the Open University was first set up one proposal was that it should rely heavily on the contributions of outside experts and enthusiasts to write the "core" of course material. In fact, the larger proportion of course units today are written by full-time Open University staff. Nevertheless, units written by external consultants form an important contribution to many courses.

A consultant has at his disposal a wide variety of skills and types of experience: teaching by means of lectures, seminars and tutorials; writing academic papers and books; supervising and conducting research; reporting research to meet deadlines, etc. All of these tend to be tied to the usual professional setting, as clearly defined and separate activities. Writing a course unit demands that they should be amalgamated into a single "written tutorial". As a guide to course unit writing, we put it: teaching, don't a tutorial but while preparing your unit and try thinking of the seven to eight hours that students will spend working on it as a day spent in your company.

What was really interesting about this was that PCW had already been given written information about the principles of writing course units and had felt he already understood them before he had started.



Below left, the OU's administrative headquarters; below, a lecture being filmed in a BBC studio, and, right, an illustration from a Communication and Technology course.



He had simply found himself unable to execute them, or even recognize the lapse into criticism. It should actively involve the reader in following the argument. Above all, it should be devoid of jargon, while at the same time creating enthusiasm for the subject under discussion.

The first draft written by PCW was something which might have been appropriate for a learned journal but it was, as the critics pointed out, totally unsuited to the Open University student. One major defect, hinted at by the first critic, was that the particular reasoning problem on which PCW expounded immediately after it had first been presented. And just as most of the subjects in the experiments failed to comprehend the solution, so too would the reader. And yet, when writing about it, PCW forgot his own thesis and expected Open University students to understand. This was discussed at length during the course team meeting.

Finally the team chairman and PCW together evolved the idea of not giving the solution to the problem immediately but holding the reader in suspense by building two related and more comprehensible problems, which subjects had been able to understand, as a prelude to the assertion between the first presentation of the problem and its final solution. This suggested reconstruction acted as a catalyst; it enabled the author to write a much simpler, more coherent and more effective second draft. Gone were phrases like "... the negation of the consequent of the task, is associated relatively more frequently with a falsifying thought process than is the unqualified consequent..." But the most interesting event was a casual remark made by the course team chairman:

"The first draft started with the discouraging words: 'At least one contemporary psychologist maintains that the study of thinking can contribute little to the development of scientific psychology'. I believe it was still relatively little to say about it even after 100 years of psychological research."

Instead he suggested as a first sentence: "I am interested in thinking because..." The result was a much more engaging and accessible introduction to the study of thinking. The author to recover the original excitement of his research, and inspired him to start writing the second draft that same evening.

What lessons about writing in general can we derive from this system of collective criticism? First, that the most effective criticism is not the least intellectual sparring match, academics indulge in publicly. Its advantages are that it allows us to "deconstruct" from a position of literacy. Instead it should create a bridge between an intellectual dis-

cipline and everyday experience; it should anticipate the difficulties involved in intellectual exposition; it should actively involve the reader in following the argument. Above all, it should be devoid of jargon, while at the same time creating enthusiasm for the subject under discussion.

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Peter Wason is a reader in psychology at the University of London. Wendy Stainton Rogers is a lecturer in the Open University.



## The story of a late Victorian woman

## Ford in performance

## Dramatist of the opposition

ment, Bemrose Publishing,  
Well Street, London WC2B 3PY



# BOOKS

## Community chemistry

Walter Gratzer is in the MRC Biophysics Unit, Department of Biophysics, King's College, London.

the innovator valid, however, for the late eighteenth century? To take only one point, there are resemblances and differences between the promotional functions of the successful official scientific bodies in France and modern governments enterprise boards or research and development corporations in many countries. Smith's book will provide useful material for any study of state science which recognizes that there is more to innovation

G. W. A. Fowles is professor of chemistry at the University of Reading.

**G. Sha**

# Sweet Maxwell

C. W. Kilminster, Professor of  
Mathematics of King's College,  
London.

chemistry at the University of Exeter.

C. W. Kilminster, Professor of  
Mathematics of King's College,  
London.

A. J. Loadbeter is professor of chemistry at the University of

Exeter, 1891.

—for example, phosphorylation with phosphoryl chloride (page 117) normally carried out on unprotected nucleosides; and mercury species (page 111) are not favoured, as is the difficulty of removing them as interfering activities.

100

**Edward Arnold**  
41 Bedford Square  
London WC1B 3DE

1. The first step in the process is to identify the problem or issue that needs to be addressed. This involves gathering information and understanding the context of the problem.



## BOOKS

## Modern and radical

Radicals by D. C. Nonhebel, J. M. Tedder and J. C. Walton  
Cambridge University Press, £14.00 and £5.50  
ISBN 0 521 22004 1 and 29332 4

All three authors of this addition to the Cambridge Texts in Chemistry and Biochemistry series have been actively engaged in research in the field of radical chemistry; two have contributed a more extensive monograph on the subject (Free-Radical Reactions, Cambridge University Press, 1974), and have subsequently written annual surveys of progress in the field for the well-known *Withers* flow. It is not surprising, therefore, that the present volume gives an authoritative and broad coverage of its subject, with points so copiously exemplified that I found myself wishing that there was a more complete bibliography. However, the book is well written, in advanced undergraduates in chemistry and biochemistry, and the limited selection of references for further reading is well chosen.

Radical chemistry has been a popular topic for texts at this level; the present one seems particularly successful in demonstrating the educational value of a subject which draws upon basic ideas of electronic structure, thermochemistry, kinetics and spectroscopy, and which, in development, is shown to underlie important processes in industrial chemistry and in biochemistry.

The past decade has witnessed major advances in our quantitative knowledge regarding unit steps in radical processes. Quantitative data and kinetic analyses abound throughout the book, and the delicate balance between fast reactions involving low concentrations of catalysts or transient species and slower reactions with bulk reagents, is re-

peatedly emphasized; this complexity is nicely illustrated in the discussion of redox reactions mediated by transition metals—a topic highlighted in an illuminating foreword by W. A. Waters in connection with its importance in biochemical systems.

The text is relatively free from trivial errors, and the diagrams and formulae are of the high standard which characterizes this series. Just occasionally, the concise style comes dangerously close to superficiality, and there are minor lapses which may stem from the very familiarity of the authors with their subject. Thus, having explained the first-derivative presentation of electron spin resonance spectra, chapter three includes, without comment (Fig. 3.4), the spectrum of the ethyl radical in second-derivative form. Another apparent oversight actually concerns the title of the book; until recently *Free Radicals* might have been preferred, in order to avoid confusion with the now obsolete nomenclature of "unchangeable roots" of organic compounds. In most recent usage, a distinction is drawn between "free" radicals and those existing as "pursuers" formed together in a "geminal pair". Although the latter are fully discussed, especially in the useful exposition of the CIDNP phenomenon, the use of "free" is never explained, despite its appearance in one chapter heading.

Such minor blemishes apart, *Radicals* forms an admirable introduction to an important topic. It can be recommended not only to advanced undergraduates, but to any scientist wishing to acquire a broad overview of modern radical chemistry.

M. J. Perkins

M. J. Perkins is professor of chemistry at Chelsea College, London.

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Publication: October 1980

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Longman Group Ltd, Burnt Mill, Harlow, Essex.

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## Coulson's classic retains its clarity

Coulson's Valence by R. M. McWeeny  
Oxford University Press, £17.50 and £8.50  
ISBN 0 19 855144 4 and 855 145 2

Coulson's Valence is a classic which has influenced the thinking of a generation of chemists. The first edition was published in 1952 and has been revised nine years later, largely by the inclusion of a chapter on ligand field theory. Although the incorporation of quantum mechanical concepts into chemistry has continued unabated, the death of Charles Coulson, in 1974, dashed hopes that we would be able to read his characteristically simple but penetrating accounts of them in a further edition of Valence. It was no small responsibility that Professor McWeeny undertook in writing a third edition of Coulson's book.

There is much that is familiar in the new edition—well remembered diagrams and Coulson's explanations, which clearly stand the test

of time. There is also much that is new. Although it has only a few more pages than the second edition, a larger page size and smaller typeface lead to a book that is half as long again. Most chapters show an increase in length but the major extensions came in "Chemical Reactivity"—which, although previously a couple of pages, becomes a chapter, as, too, does "Self-consistent Field Theory". Three appendices (on "Probabilities", "Angular Momentum" and "Group Theory") are included for the first time, as are problems at the end of each chapter.

But for a book carrying the name of Coulson, contents are only part of the story; equally important is the way in which it is written. "With clarity" is the order. Inevitably, there are points of criticism but these are minor and perhaps personal. Thus, I found the apparently careful avoidance of the term "orbital" in a detailed discussion of characters and labels associated with the molecule of benzene somewhat strange (appendix 3). Quite clearly in error is the

statement that Xe and F<sub>2</sub> form XeF<sub>4</sub> (page 373). It is inevitable that photocopying of the text should appear; however, although it is explained that the text is in the public domain, it is not clear that students will discount the importance of monochromatic light in spectroscopy without it. Because it is clearly stated in the book (Figure 11.7, which illustrates various atomic arrangements), it is only vaguely and erroneously referred to in the text. These were more than offset by clear, unambiguous—but perhaps provocative—statements as "do not exist! They are artefacts, a particular theory".

Professor McWeeny is to be congratulated on his revision. It is a book to be sold, except that Coulson would have been very much approved of this third edition.

S. F. A. Kettle

S. F. A. Kettle is professor of chemistry at the University of Exeter, Devon.

## Examining protein structure

Principles of Protein Structure by G. E. Schulz and N. H. Schirmer  
Springer, DM54.00  
ISBN 3 540 90386 0

The distastefully irregular shape of the globular protein molecule, the first globular protein to be solved in three-dimensional detail, came as a shock to what brought up crystallographers. Myoglobin is actually one of the more regular proteins, but we are, some 20 years and 70 protein later, beginning to discern the order that stands rooted in the apparent disorder of these structures. The folding of protein chains can now be seen to fall into different classes, a relatively limited number of patterns being energetically favourable. The stability of the folded chains depends upon a very subtle balance between the enthalpic forces that hold chemical groups together and the entropic forces that are inimical to a highly ordered arrangement. Paradoxically, in the complete system of protein plus solvent, it is the greater randomness of solvent molecules which pays for the order in the folded protein.

The three-dimensional structure of the folded protein is a consequence of the linear sequence of its constituent amino acids and we are reaching a stage where we are beginning to understand some of the factors that cause local sequences of amino acids to fold into well-defined segments of secondary structure and these segments then to associate into a favourable tertiary structure. We are still, however, some distance from being able to predict a complete three-dimensional structure from the sequence.

Knowledge of the three-dimensional structures of proteins has revealed the basis of biological specificity, the remarkable precision of biological control processes and the extraordinary efficiency of enzymic catalysis, processes that man is now trying to harness.

Although there have been many excellent reviews—and the monograph by Dickerson and Geis (Structure and Action of Proteins, W. H. Freeman & Co., 1969) remains a surprisingly up-to-date and valuable introduction—those concerned with teaching, and research in the field have long felt the need of an authoritative text.

The oxidizing similarity between the myoglobin molecule (from the sperm whale) and each of the four chains of haemoglobin (from horse) revealed two distinct faces of evolution at the molecular level: (1) the development of new chemical functions and greater precision of control of living systems by a process of molecular adaptation; (2) the fact that an overall similarity of structure, between corresponding proteins from different species, embraces detailed chemical differences at the molecular level that underlie the gross differences between whole organisms.

Structural studies of proteins have revealed evolutionary relationships not only between molecules of similar function but also between others whose chemical and functional relationships had not been suspected. They have, also, shown convergence towards similar patterns of structure and catalytic effectiveness in chemical groups in otherwise unrelated proteins.

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Principles of Protein Structure is the gap admirably. It does so, however, some familiarity with the subject, and the final two chapters which are essentially concerned with a structural point of view, protein-ligand interactions and the basis of mechanism, need supplementation from an up-to-date text on enzyme function.

The sentence "Unnecessary details tend to hide essential features" (chapter seven) epitomizes in a nutshell the authors' approach. Occasional errors are rare when the choice of words betrays that English is not their first language, and there are many happy runs of phrase which strikingly illuminate a point.

Chapters are essentially self-contained and clearly divided into short sections so that the book can be read through, although a few sections (for example, on the balance between enthalpic and entropic contributions to chain folding) are condensed for ready comprehension.

For the reader to be able to apply the approach described without further reading, the references are often guides to supplementary reading rather than to the original literature but they are very numerous (over 800) and commendably up-to-date.

For one, an grateful to the authors for producing a text that can be recommended, thoroughly advanced undergraduates, postgraduates and my colleagues.

A. C. T. North

A. C. T. North is professor of biophysics at the University of Leeds.

## Unity of inorganic chemistry

A Theoretical Approach to Inorganic Chemistry by A. E. Williams  
Springer, DM98.00  
ISBN 3 540 09073 8

Little, if anything, in this book is new and yet I think that it could prove to be a most significant work. It is, of course, up to date in factual content. It is very clearly written, with that linguistic precision characteristic of a firm grasp of the mathematical basis of topics which, for the most part, are presented in a way that would not unduly distinguish the book. What is so important is that Dr Williams has, with considerable success, imposed an overall philosophy upon his subject matter; so that the book has a unity and coherence about it. This book is divided into two opening chapters on "Quantum Mechanics and Atomic Theory" and "Simple Molecular Orbital Theory". They are the two subjects which, in the

ahly sure-footed, covering a surprising amount of ground and identifying features for inner qualitative use. The section on "The Use of Symmetry" is, however, far too condensed to serve as the only introduction to the subject, and I felt the same about "Atomic Spectra".

Having established a basic vocabulary of bonding theory and symmetry methods, this is used in giving accounts of electronic spectra and reactivity, and a concise survey of main group, transition metal, lanthanide and actinide descriptive chemistry. The underlying unity can be felt most strongly through the consistent use of molecular orbital theory, in which context are treated such topics as electrostatic and chemical bonding, and ligand field theory (marked only by a confusion of ligand field splitting parameter with LFSE). A tentative attempt is also made to encompass the solid state by way of brief descriptive passages on "band theory" and "molecular orbital theory".

Dr Williams is to be congratulated on his revision. It is a book to be sold, except that Coulson would have been very much approved of this third edition.

Who will read it? Certainly most inorganic lecturers could use it with profit and enjoyment in their lectures. It is a book that I would recommend to all my students, and I think that it would be a most valuable addition to their bookshelves.

Dr Williams is to be congratulated on his revision. It is a book to be sold, except that Coulson would have been very much approved of this third edition.

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## Politics books

## Perspectives on the Palestinian question

The British in Palestine: the mandatory government and the Arab-Jewish conflict by Bernard Wasserstein  
Royal Historical Society, £8.45  
ISBN 0 301050 45 8

The Question of Palestine by Edward W. Said  
Routledge & Kegan Paul, £7.50  
ISBN 0 7100 0498 2

The Palestinian Covenant and its Meaning by Y. Harkabi  
Valentine, Mitchell, £8.50 and £3.95  
ISBN 0 8530 3200 9 and 3201 7

The history of the British Mandate for Palestine and its aftermath is a seemingly inexhaustible subject. These three books approach the topic from different standpoints and while one is basically a historical work the other two are written from a more obviously partisan point of view.

Only the adverb needs to be deleted from the concluding sentence of Dr Wasserstein's book: "The British Mandate was perhaps doomed from the start". In impressive fashion he follows the early years of the British in Palestine (1917-22), and the problems met by those officials who attempted to work the mandate with its commitment to establish a Jewish National Home, and who in their daily work were drawn into a torment of conflicting expectations and attitudes. In addition, these same British officials believed that the Palestinian Arabs had been betrayed, once promised an independence which the Balfour Declaration made impossible. Sir Gilbert Clayton, the Chief Secretary in Palestine, was convinced that the country had to be run by pure Britishers and suspected that there was "an intangible something" behind everything, an unseen influence—something, and certainly not British.

In addition, these same British officials believed that the Palestinian Arabs had been betrayed, once promised an independence which the Balfour Declaration made impossible. Sir Gilbert Clayton, the Chief Secretary in Palestine, was convinced that the country had to be run by pure Britishers and suspected that there was "an intangible something" behind everything, an unseen influence—something, and certainly not British.

This confused state of affairs (not quite clearly explained by Dr Wasserstein) was worsened both by the British Government's insistence that it could not, as a matter of honour and self-respect, withdraw

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## Scientific approach to politics

The Scientific Study of Foreign Policy: revised edition by James N. Rosenau  
Frances Pinter, £15.00 and £6.95  
ISBN 0 89397 074 3 and 075 1

This is a collection of essays all of which have been published over the period 1957-79. They are grouped together in four categories: the scientific; the scientific; the scientific; and the international context. There is a heavy emphasis on "scientific" methodology in the study of foreign policy and inter-state relations, by which is meant the definition and formulation of concepts, the organization and analysis of conceptual schemes, and the attempt to apply general hypotheses to foreign policy making. The author throughout is insistent on the tentative nature of such an approach, and on the need for what he calls "pre-theory".

The most significant revision seems to be in the author's growing uneasiness as to whether his work is founded on the wrong questions. But apart from this, rather tantalizing admission, Mr Rosenau does not specify what he feels to be wrong. Rather he leaves this to his readers and argues that this is the only way in which the scientific study of foreign policy can be advanced.

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organized into states, do what they do to each other. Mr Rosenau is a liberal academic. He does not assert that his approach is superior to any other. From the early work of Thomas Kuhn he takes the view that a discipline is simply a consensus of academics. Truth is 51 per cent. Admittedly in his own field no general consensus exists. But the fault, if fault it be, lies in the perverse individuality of academics who prefer their own theories to the tyranny of others.

Theorizing is a virtue and eventually perhaps there will be a convergence and a consensus will emerge. Though how this might come about Mr Rosenau is as uninformative as Mr Kuhn.

The problem is that although he is aware that scientists have criteria by which they accept and reject empirical hypotheses, he does not specify what these should be in the case of hypotheses about human actions and decisions in the field of foreign policy making.

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## Rules of the election game

The Presidential Contest: With a guide to the 1980 race  
by Richard A. Watson  
Wiley, £2.80  
ISBN 0 471 05642 1

Thanks to the Brookings Institution, the American Enterprise Unit and other design sponsors, there now abound detailed studies of that unique combination of chess, poker and strategy known as the American presidential election. This book is not one of them; rather, it is a manual which concisely covers, in logical sequence, the rules, the campaign and the voting for both the nominating and electoral stages. Here, as to speak of the board and the pieces, the rules and the chips, together with some exemplary gambits and end-games. The author's personal evaluation of the game occupies a mere 15 pages, but he appears a little 30-page guide to the current 1980 contest.

What are the virtues of this primer? First, it accords the weight due to the nominating process: over one month, since it is this phase of the struggle that increasingly attracts public attention. Whereas fewer and fewer Americans vote in the final election—only 54.4 per cent of those eligible in 1976—the number of those participating in presidential primaries has more than doubled (from 12 million to 26 million) over the previous eight years. Such beauty contests, the author suggests, are now the recourse of three fifths of the states not least because the parties' regulations for the conduct of the caucus/convention method make that alternative mode of selection too complicated.

When their favourite has not won the nomination, does this "scissors" then, lose interest? Is the whole business pre-empted, so elaborate? Mr Watson is not sure. While applauding in principle the increased "democratization" of the nominating process, he detects excessive personalism, as distinct from (say) regional, coverage by "puck journalism", and fears that too much of the influence is vested in the party professionals who pass not to the amateur but to the media.

A second virtue is that this author's information really is up to date. He seems so confidently through that complicated series of recommendations whereby three successive Democratic committees recently rewrote the rules governing the composition of their party's



Republicans rooting for Ike at their national convention in 1952.

national convention. Reshaped almost beyond recognition, the convention is now a body coupled with great reverence for both electoral traditions and social etiquette. Yet, as their choice of McGovern showed in 1972, the Democrats may remain just as much at risk as their comparatively unreformed rivals (remembering Goldwater's fate in 1964) if they thereby produce a standard-bearer whose unacceptability to rank-and-file supporters provokes mass defection.

Up to date also is the book's treatment of the money problem. In the past decade federal laws governing campaign expenditures and contributions—a nice but important distinction—have been made and revised. These extremely complicated episodes of amending and rewriting, in one of which the United States Supreme Court itself was involved, have made public funds conditionally accessible to the presidential contestants, fully as in the general election, partially in the primaries. Of this novelty both Carter and Ford availed themselves in 1976, with consequences which are still debated.

One does not lightly criticize a

political process which has conveyed to the White House some excellent men and very few bad. Nevertheless Mr Carter's original campaigning slogan, "Why not the Best?", deserves the most hard scrutiny. Why not indeed? Richard Watson, like other observers, was radically to purge the electoral college ritual of its inherent distortions while preferring the conditions which favour the steady accumulation of facts but by a party prize which might in different circumstances be described as a divine revelation.

The first two chapters are devoted to an examination of the Marxist and syndicalist heritage in Italy, and this is followed in the next two chapters by an analysis of the essential concepts of Italian fascism and the relationship between the theories of fascism, syndicalism and Marxism as described in detail and catalogued. The author concludes that "Fascism was the heir of a long intellectual tradition that found its origins in the religious legacy left to revolutionary theory by Karl Marx and Friedrich Engels."

Fascism was, in a clear and original sense, a Marxist heresy. Several interesting comparisons are made between the ideas and actions of Mussolini and his supporters, 1932, and those of Lenin and his followers in the same period. For example, attention is drawn to similarities between the "one man machine" of the Italian Fascist Party and the "one man machine" of the Soviet Union. The author also points out that the Italian Fascist Party was the first to introduce a system of discipline into the ranks of its members, a system which was later adopted by the Soviet Union.

The book, however, is not merely an examination of the historical aspects of the link between fascism and the ideologies of the Left. The author has also written a great deal of attention to the economic, social and labour aspects of the fascist movement, and, finally, to an analysis of fascism and development in the modern world.

The book provides a clear and original perspective. The chapter on the use of mass mobilization and mass psychology to advance the cause of fascism is particularly interesting. It reveals how the Italian Fascist Party used these methods in Germany.

It is Professor Gregor's analysis of the theory and practice of fascism and the sensitive areas of economic and labour policy which makes the historical and contemporary relevance of these matters have been thoroughly researched and carefully documented and can be used by many of the most important areas of research in the field of fascism and development.

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## Fascism

Italian Fascism and Development  
by James Gregor  
Princeton University Press, £15.20  
and £5.40  
ISBN 0 691 05286 7 and 10062 9  
1982 S.

A James Gregor is professor of political science at the University of California, Berkeley, and has written several books relating to the phenomenon of fascism. In this volume he develops certain themes alluded to in his *The Fascist Persuasion in Radical Politics*, published in 1974, as well as introducing a number of new ideas. Professor Gregor is no stranger to controversy, as his supporters and opponents of his ideas and analytical framework have once again been given plenty to consider.

The author's principal thesis is that Italian fascism was not a unique and isolated entity in Europe's historical development but that it had much in common with radical and revolutionary systems, including those described as Marxism. It is hard to imagine that this viewpoint will be readily received by those who see fascism as a unique and isolated entity in Europe's historical development but that it had much in common with radical and revolutionary systems, including those described as Marxism.

It is still more unfortunate for the author and his sympathizers in the United States that Professor Gregor has been at such pains to meet all likely counter-arguments with such a convincing weight of evidence and a range of analysis. Such trivial considerations will no doubt be ignored by the slavish devotees of pseudo-Marxist historicism who are fortunate enough to be able to proceed not by the steady accumulation of facts but by a party prize which might in different circumstances be described as a divine revelation.

The first two chapters are devoted to an examination of the Marxist and syndicalist heritage in Italy, and this is followed in the next two chapters by an analysis of the essential concepts of Italian fascism and the relationship between the theories of fascism, syndicalism and Marxism as described in detail and catalogued. The author concludes that "Fascism was the heir of a long intellectual tradition that found its origins in the religious legacy left to revolutionary theory by Karl Marx and Friedrich Engels."

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## Gramsci's message

Gramsci and Marxist Theory  
edited by Chantal Mouffe  
Routledge & Kegan Paul, £9.50  
and £3.95  
ISBN 0 7100 0357 9 and 0356 7

Gramsci's Politics  
by Anne Showstack Sassoon  
Croom Helm, £12.95 and £5.95  
ISBN 0 7099 0326 X and 0344 6

Gramsci and the State  
by Christine Buck-Glucksmann  
Lawrence and Wishart, £14.00  
ISBN 0 85315 483 X

All three of these books are substantial contributions to an understanding of the complex and subtle thought of Antonio Gramsci.

Following the neo-structuralist intellectualism of the 1960s, the last decade has seen Gramsci emerge as the most influential source for Western Marxism. In the 1950s and early 1960s neo-structuralist Marxists sought to harmonize Marxist thought with the apparently organic and natural nature of advanced industrial society in which both the working class and the bourgeoisie had lost their self-confident sense of mission. Revolutionary tendencies tended to leak to the third world as the weakest link in the imperialist chain and the best hope for radical change.

The pregnant obscurity of Gramsci offered guidelines for analyzing and transforming Western society which were closed both to the static approach of the Althusserians and to the neo-Marxism of the Frankfurt School. Both of these, while opposed in their philosophy, were seen as sharing an emphasis on theory that allowed for no practical issue. A more immediate reason for the growing attention given to Gramsci has been the rise of Eurocommunism. The protagonists of Eurocommunism, particularly in the Italian Communist Party (PCI), have claimed that their attempts to achieve the transformation of capitalism in socialist directions by peaceful means within the constitutional and legal framework, provided by bourgeois democracy, are grounded in the work of Gramsci.

He has been called the theoretician of the (ideological) superstructure rather than of the (economic) base, and the Prison Notebooks written between 1929 and 1936 explore themes which appear to lend support to the Eurocommunist perspective: the extended rule assigned to intellectuals, the emphasis on the concept of hegemony, and the resulting differential struggle for revolution in the East and in the West. These three commentaries share this perspective, but are written from a "left" Eurocommunist point of view—being anxious to guard against what Gramsci might be taken to mean as the danger in the interests of peace and expediency.

Chantal Mouffe has produced an extremely useful collection of eight articles which embody many of the most important contributions to the debate on Gramsci in Italy. It is a lesser extent than the other two, which is badly served by the standard of translation means that the context is not always accessible to the Anglo-Saxon reader, these essays are well worth perusing. They are set at the beginning in Norberto Bobbio's classic essay in which he claims that, within a Marxist framework and with fruitful results, Gramsci favours the distinction between structure and superstructure that had obtained in Marx's view, which is then criticized by Antonio Gramsci.

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Summer 19



## The inevitability of militarism

**Problems of Contemporary Militarism**  
edited by Aabjorn Elide and Morek Thee  
Croom Helm, £14.95  
ISBN 0 7099 0108 9

**The Economics of Third World Military Expenditure**  
by David K. Wynnos  
Macmillan, £10.00  
ISBN 0 333 24346 3

**Military Power and Policy in Asian States: China, India, Japan**  
edited by Onkar Marwah and Jonathan D. Pollack  
Dewson, £9.00  
ISBN 0 7129 0890 0

Nobody has yet devised an alternative to the role of armed forces that could conceivably work in the kind of world we live in. True, particular disputes can be resolved without recourse to violence, but across the world, in all countries and in all social systems, the capacity for violence is the most likely outcome.

Elide and Thee's *Problems of Contemporary Militarism* is a collection of papers from the "peace community" which ought to carry a warning that the reader's credulity is likely to be tested. Not one of the 19 papers faces up to the book's central thesis. "Ours is a sick society," writes Thee. "One symptom of the sickness is the spread of militarism and militarism around the globe." One would expect from such a global perspective that the contributors would address themselves to first showing why in their view militarism is unique to our times (which it is not) second, why it is universal in both capitalist and

socialist societies (which it is), and third, what produces it in all social systems and at all levels of development (which we do not know enough about).

What the unsuspecting reader gets is a highly selective account of militarism in western societies and the non-communist Third World. The only references to the phenomenon of militarism in socialist societies are a silly assertion by Michael T. Kloro that militarism is "obviously most pronounced in capitalist societies" because of the "profit motive" and a misleading paper entitled "The Critique of Militarism in Soviet Studies" by Julian Linder, which is in fact a Soviet critique of militarism in the West. Its author presents the Soviet view without critical comment and Richard Falk does not dispute it because he defines militarism as: "anti-Soviet, anti-Communist in world view", which allows him to lump Communist China among "Right-Wing militarist" regimes.

Klare's essay "Militarism: the issues today" notes that "the military tend to impose hierarchical forms of decision-making on all government institutions, and to place all other institutions—the press, schools and colleges, the church, trade unions, peasant organizations—under central state control. Any institutions, social groupings, organizations or individuals which resist such control are considered a threat to national security and are forcefully disarmed, restricted, purged or neutralized by state agencies. Non-conforming ideas, values, religious or political beliefs, artistic styles or ethnic identities are considered subversive and adherents thereof are punished accordingly." To anybody but a contributor to this volume, there would be an almost perfect description of the aftermath of a communist war or coup in a developing country. Does the experience of Cuba, Ethiopia, Xanan, Cambodia, Viet-



Russian troops of the Temonskeyo division simulating battle on a burning obstacle course near Moscow.

nam, North Korea, China, Afghanistan or Angola, it is not clear if the institutional and economic consequences of military and military communist regimes are the same—forced march development—then they should be researched as part of the same phenomenon.

William Eckhardt suggests that research into communist militarism "should be done by researchers living in these worlds, using their own methods and procedures: in order to obtain the most meaningful results for their cultures." That is probably the most disgraceful statement in the whole book; any contributor claiming any semblance of scientific integrity must repudiate it without qualification.

Eide writes that "it has been claimed that in non or low-industrial countries (the category in which most Third World countries find themselves) the armed forces contribute to the economic development of the country, concerned." He

calls this a "myth" but accepts it has "a core of truth". He cannot do anything else because the empirical research supports the "myth". He wrote then: "The big surprise was the finding that the evidence does not indicate that defence has had any net adverse effect on growth in developing countries." David Wynnos in his book shares Benoit's integrity in feeling up to the evidence although he appears to sympathize with the disarmament option.

*The Economics of Third World Military Expenditure* is a well-written summary of the empirical evidence about defence, opening in Third World countries—though six years after Benoit's study Wynnos might have extended his vision to the socialist countries who have played a more prominent role in war (between each other) and in direct intervention (Cuba—Angola, Ethiopia). He does look

in detail at "military policy in development" with respect to Indonesia, China and Tanzania, and this is a most welcome contribution to defence studies.

Marwah and Pollack, in *Military Power and Policy in Asian States*, provide an antilevel difference of opinion on the military's role for their respective areas of three very different countries: China, India and Japan. I find Pollack's essay, "China as a Military Power," the most interesting. Much of China's high policy in the years since 1949 makes sense once it is appreciated that the ground forces remain woefully deficient (in comparison with the potential adversaries) in the event of a surprise attack. The intervention and other factors could be effective infantry operations and subject to the vulnerability of Chinese logistic systems.

China's hostility to Russia is based on fear of what their neighbour might do if the Russian intervention in Chinese affairs for Peking, but another turn of screw. China's armed forces are largely geared for air defence. Their strike capacity outside its role is severely limited. They do not match for a mechanized opponent, nor can they sustain a drawn out campaign beyond its borders. From this structural weakness, the turn towards the relationship with America at NATO Europe is perfectly explicable. The fact that Russia can't sustain such a military campaign, which has the capacity for long range intervention, both directly on its own account or through surrogate (Cuba and Vietnam), is a sobering thought.

Gavio Kennedy

Gavin Kennedy is senior lecturer in economics at the University of Strathclyde.

## BOOKS

### Atomic architecture of solids

**Structure and Bonding in Solid State Chemistry**  
by M. P. C. Lau  
Ellis Horwood/Wiley, £18.00 and £5.95  
ISBN 0 85312 095 1 and 103 6

The author of this volume has set himself a task of considerable difficulty. This is to present to undergraduate students in the physical sciences a treatment both of the way atoms arrange themselves in solids and an explanation of this architecture in terms of the spatial distribution of the electrons. It is true to say that in such a treatment, one must appeal to a very wide range of concepts in both physics and chemistry. This makes the author's subject of much more appealing and also very difficult to present to undergraduates.

The atomic arrangements in solids are treated well, with pleasing emphasis on many modern examples. Thus, we are not simply told the facts about crystalline solids (and how they are established) but we are made aware of the interest in the amorphous and glassy state, in which only the local bonding remains relatively intact but the lattice order of the crystal is lost. This is as it should be, for we now know what the early preoccupation with the properties of lattices, rightly reflected in the Brillouin zone classification of electron levels and lattice vibrational frequencies, nevertheless tended to mask the importance of local atomic environment as a matter of great significance in condensed matter. Thus, coordinating number, local chemical build-

ing, molecular units, and so on, are now known from our increasing understanding of solids without long-range lattice ordering to have crucial role to play. In addition, missing atoms or defects in solids, which are also treated in the book, have also tended to bring home the same message. Thus, in the discussion of the solid state, the chemical view has certainly come back into the centre of the stage, where pioneers like Linus Pauling had always believed it should be.

The writer has tried to make his book relevant to such modern trends—he refers to nanoparticles and defects in solids, and there is also a brief but useful place on the liquid crystal state which can arise in the case of large elongated molecules. Laid has been bold in his coverage and that is, of course, commendable. Thus, the discussion of ionic crystals, of Frenkel and Schottky defects, and of the Debye-Hückel theory is the kind of basic background needed to understand the more advanced technological promise of last ion conductors. Naturally enough, Laid does not mention the fact that the early preoccupation with the properties of lattices, rightly reflected in the Brillouin zone classification of electron levels and lattice vibrational frequencies, nevertheless tended to mask the importance of local atomic environment as a matter of great significance in condensed matter. Thus, coordinating number, local chemical build-

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N. H. March

N. H. March is Coulson Professor of Theoretical Chemistry at the University of Oxford.

### Orthodox and well tried pattern

**Physical and Mechanistic Organic Chemistry**  
by Richard A. Y. Jones  
Cambridge University Press, £25.00 and £9.50  
ISBN 0 521 22642 2 and 29596 3

This volume is the most recent addition to the useful and authoritative series of Cambridge Texts in Chemistry and Biochemistry, which are directed primarily at more advanced undergraduates and graduate students. The author first lays out the ground rules in six introductory chapters: structure and mechanism, kinetic studies, linear free energy relationships, acids and bases, the orbital medium, and molecular orbital methods. He then seeks to put the knowledge thereby acquired to work in explaining the behaviour of organic compounds in a range of different reaction situations. These comprise aliphatic electrophilic substitution, elimination reactions, addition to carbon-carbon double bonds, aromatic electrophilic substitution, addition to

the carbonyl group and related reactions, the hydrolysis of carboxylic esters, aromatic nucleophilic substitution, molecular rearrangements, and, finally, pericyclic reactions.

This is an orthodox and well tried pattern, and one's first reaction is to wonder how successful it has been. The answer is quite successful, although, as so often happens, the degree of sophistication achieved (and the space taken up) by the material, in the introductory chapters, is significantly greater than is subsequently required for the explanatory material that constitutes the meaty body of the text. Having said that, it is equally true that the quality of the explanation offered is in general of a high standard, and the use of examples is also interesting, and sometimes quite unusual.

Dr Jones has obviously had to be highly selective in a book of this size. He has, as his sons have said, emphasized the "classical" and "fundamental" aspects of the homolytic and heterogeneous. This is a sensible choice—though

radical reactions do perhaps merit a little more coverage than three or four pages.

The general effectiveness of the explanations of diverse aspects of reaction mechanism is much enhanced by the fact that Dr Jones writes well. He has also gone to a great deal of trouble over the layout of his pages, so that information that is often complex is clearly and attractively displayed. The book is well documented, not only in terms of references to the original literature, but also with numerous suggestions for further reading at the end of each chapter.

An obvious comparison is with *Mechanism in Organic Chemistry* by Alder, Baker and Brown (Wiley, 1971). Dr Jones's book is more orthodox and less imaginative than that one, but the student may well find it easier of the two to get on with.

Peter Sykes

Peter Sykes is a Fellow of Christ's College, Cambridge.

### The charm of thermodynamics

**Chemical Thermodynamics**  
by M. L. McGlashan  
Academic Press, £18.00  
ISBN 0 12 42550 4

In style and level of treatment this is a worthy successor to Guggenheim's *Thermodynamics* (North-Holland, 1949), unless they are not to be taken too seriously. The book is written for the student, and the author's own words are clear and concise. The book is written for the student, and the author's own words are clear and concise. The book is written for the student, and the author's own words are clear and concise.

thermo thermodynamic functions in terms of which it can be expressed. Many general readers will find entertainment in the expected attack upon "universal entropy" beginning on page 11 and in similar passages elsewhere.

The important difference from Guggenheim lies in the more integrated view of the experimental, theoretical and practical aspects of the subject. In the author's own words, "The great charm of thermodynamics is that it can be at best both rigorous and rigorous in its application to the real world." The book is written for the student, and the author's own words are clear and concise. The book is written for the student, and the author's own words are clear and concise.

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Even where full recognition is taken of the fact that Singer's book is only a brief introduction, it is inadequate in several important respects. First, although he is a good and respected philosopher he is, like Acton and Hume, not at home with the philosophical tradition of Hegel and Marx and makes several extremely odd remarks. It is a caricature to say of Hegel that he takes "mind" to characterize the "spiritual side of the universe" or that his coloration to the spirit is self-contradictory. It is equally odd to say that Marx is a "poor social scientist" when he is a good philosopher who offered "penetrating" insights into the nature of freedom and the historicity of human nature.

Second, like G. Collingwood and other recent writers, Singer accepts the view that Marx was a "poor social scientist" when he is a good philosopher who offered "penetrating" insights into the nature of freedom and the historicity of human nature.

Bhikhu Parekh

Dr Parekh is reader in politics at the University of Manchester.

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Office (Code HERSB7), Brunel City Polytechnic,  
Uxbridge, Middlesex, U.K. UB8 3PH, or by telephoning  
0181 875 287. Completed forms should be returned by 3 June 1987.

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**Council for National Academic Awards**  
**APPOINTMENTS IN RESEARCH DEGREES UNIT**

### Assistant Registrar

## Executive Officer

Applicants should preferably be graduates with some experience of work in higher education, but other appropriate administrative experience may be considered. In addition the ability to type is essential.

Salary within the range 1:14,307-15,856 p.a.

Further particulars of both posts may be obtained from

Assistant Secretary (Personnel,  
Council for National Academic Awards,  
344/354 Gyr's Lee Road,  
London WC1X 8BP  
Tel: 01-71-77-7771

in whom applications giving details of qualifications and experience and the names and addresses of two referees should be submitted by 9 June, 1980.

Salary scales (subject to review) :  
Lecturer, II/SL, £5,229-£9,822  
Senior Lecturer, £7,785-£9,822

Further particulars and application forms may be obtained from the Establiement Officer, The Polytechnic, Wolverhampton WV1 1L (0902-27371). Answerphone service after office hours, to whom application forms should be returned within 15 days of the date of the advertisement.











